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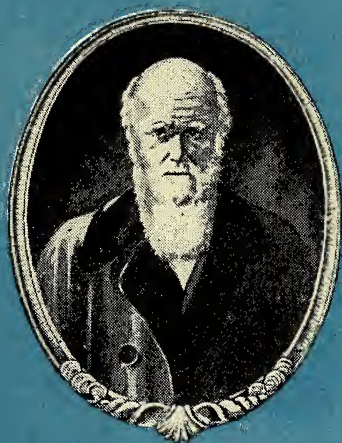
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MAY 18, 1946

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SCIENCE & PHARMACY SERIES No. 42

1809



1882

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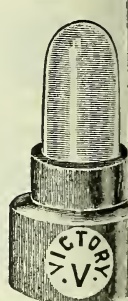
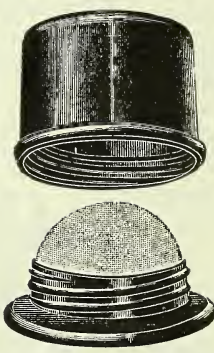
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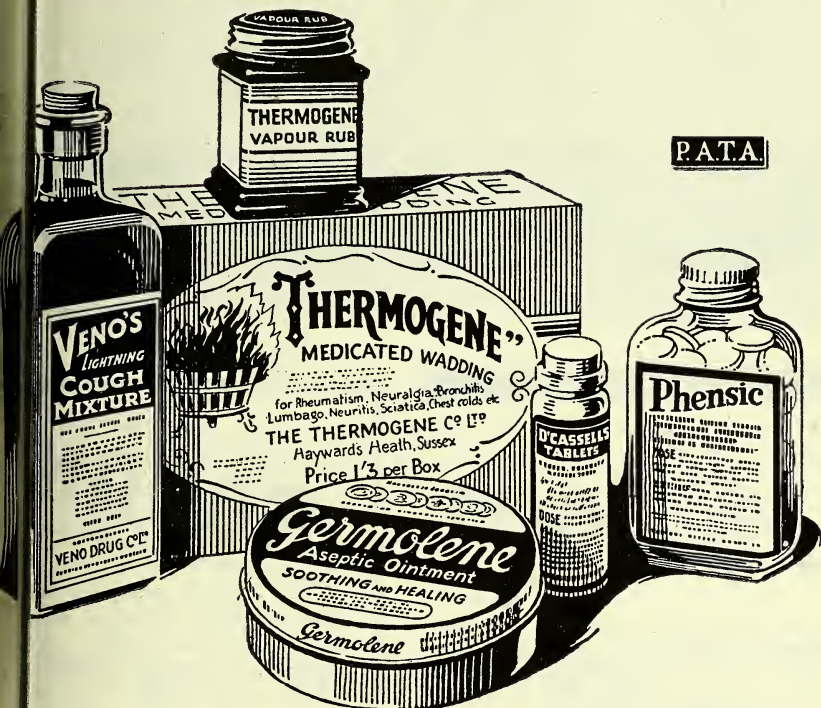
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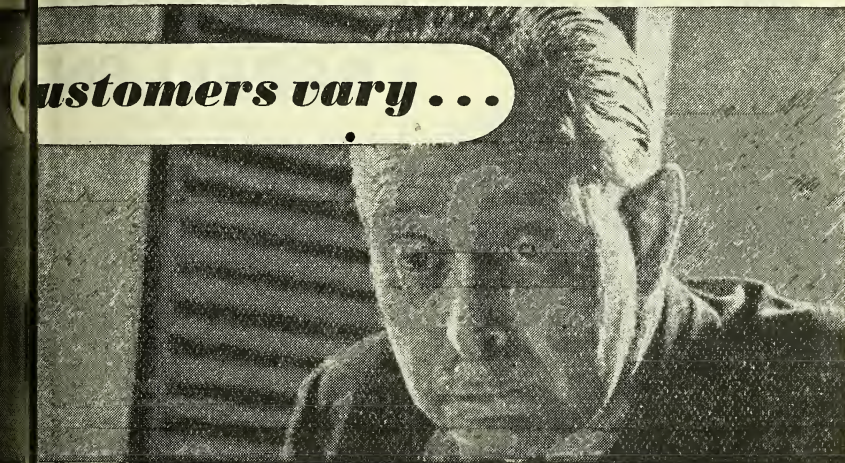
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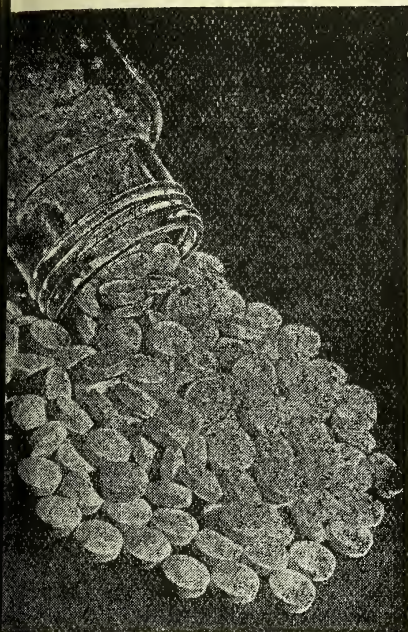


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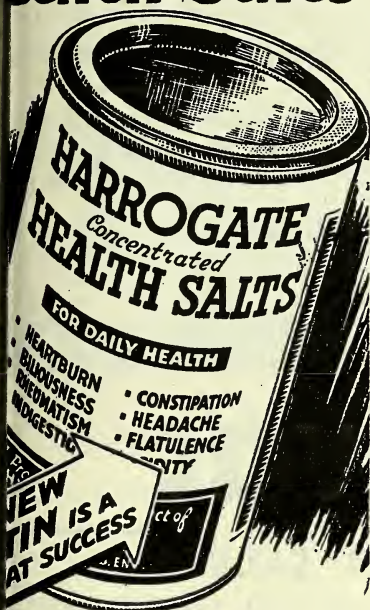
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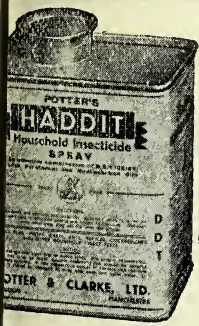
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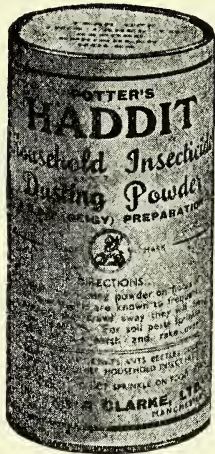
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## NEWS OF THE WEEK

**A. W. and Sentenced Scientist.**—The Association of Scientific Workers has called for abolition of the "extremely harsh" sentence of ten years' penal servitude imposed on Dr. Alan Nunn May for an offence under the Official Secrets Act. Dr. May had been engaged on atomic research.

**Penicillin Prices.**—From June 1, under distribution arrangements announced recently by the Ministry of Supply (*C. & D.*, p. 586), the free issue of penicillin by the Ministry through the hospital system will cease. From that date supplies will be obtained from the usual suppliers of pharmaceutical products. Initially, most of the penicillin will be in the form of dried products, packed in vials or ampoules containing 0.1, 0.2, 0.5, 1.0 mega units, and the maximum retail prices of these packs will be 2s. 9d., 4s. 9d., 10s. 6d., and 20s. respectively. Penicillin will also be available as an oil-wax suspension for injection. Pharmacists may use dried penicillin in following the prescriptions of registered medical and dental practitioners. Should difficulty be experienced in obtaining

supplies, advice may be sought from the Ministry of Supply, Penicillin Production Control, Tothill Street, London, S.W.1 (Telephone: Abbey 7788, Ext. 403).

**Selection Committee on Camera Design.**—Selection of the scientific instruments and cameras to be shown at the "Britain Can Make It" Exhibition (see *C. & D.*, March 2, p. 277) will be made by the following committee appointed by the Council of Industrial Design: Dr. H. R. Calvert (assistant keeper in the Department of Astronomy, Mathematics, Optics and Chemistry at the Science Museum, South Kensington); Mr. A. J. Philpott, O.B.E. (director, British Scientific Instrument Research Association), and Mr. Alfred Whitaker (research director, Nash & Thompson, Ltd). Mr. J. Beresford Evans, a member of the Council's staff, will act as secretary. Manufacturers who have not already communicated with the Council about suggested exhibits for the Exhibition should write without delay to the Council of Industrial Design, Tilbury House, Petty France, London, S.W.1.

**Death in Gas-mask.**—Recently, Richard Whibley, Cliffe, nr. Rochester, Kent, described as an apprentice to a chemist, was found dead in bed wearing a civilian-type respirator.

**Warehouse Destroyed by Fire.**—The warehouse of Thomas Reid & Sons, Ltd., soap-makers and manufacturing chemists, 410 Scotland Street, Glasgow, was destroyed by fire on May 7.

**Wine Licence.**—A licence to retail wines, limited by an undertaking to sell only medicated brands, has been granted to Mr. A. E. Stone, M.P.S., Market Buildings, Ryhill, nr. Wakefield, Yorks.

**Dundee Burglary.**—Police tackled recently an early morning intruder at the shop of Mr. R. G. Mackenzie, M.P.S., 1 Alpin Road, Dundee. The thief succeeded in escaping with a sum of money.

**Rota for Pontypool?**—Pontypool, Mon, chemists, at a recent meeting, decided in favour of revising their closing hours in co-operation with local doctors, and of instituting a rota system for dispensing urgent prescriptions.

**Purchase Tax Exemption.**—Batteries specially designed for high-tension supply for deaf aid appliances are exempted from purchase tax under The Purchase Tax (Exemptions) (No. 2) Order, 1946, operative from May 20.

**Pharmacy as a Career.**—Advice on pharmacy as a career will be given at a meeting to be held in June at the High School, Glasgow. The meeting is one of a series of "Careers meetings" organised by the Glasgow Careers Council.

**£2,000,000 for Chemical Plant.**—Imperial Chemical Industries, Ltd., plans to spend approximately £2,000,000 on developing its pharmaceutical and dyestuffs plant at Grangemouth, Stirlingshire. A further 650 people will be employed.

**Hints to Business Men.**—An additional pamphlet has been issued by the Department of Overseas Trade in the series "Hints To Business Men." It relates to India, Burma and Ceylon. Copies may be obtained on application to the Department at Hawkins House, Dolphin Square, London, S.W.1.

**Torquay Branch Officers.**—At the annual meeting of the Torquay Branch of the Pharmaceutical Society held recently, the following officers were elected: *Chairman*, Mr. H. Holmes; *Vice-chairman*, Mr. E. J.

Bowerman; *Treasurer*, Mr. W. H. Vatt; *Joint Secretaries*, Messrs. T. D. Eva and W. F. Byatt-Smith.

**Birkenhead Outing.**—A visit to Bla is planned for the annual outing on J of the Birkenhead and Wirral Pharm Association. The price of tickets, wh limited, is 25s., inclusive of meals, and bers wishing to join should apply as possible to Mr. J. W. Waterworth secretary), 224 Bebington Road, Ferry, Birkenhead.

**Liverpool Hospital Pharmacists.** The Liverpool medical officer of health has asked to report on the revision of the establishment of pharmacists in the hospitals. The engagement as pharmacists at Walton Hospital, Liverpool, of N Thornley, M.P.S., who reached the retirement age last year, has been extended for a further period of six months.

**Scottish Pharmaceuticals for Chemicals.** Pharmaceutical and biological preparations and fine and heavy chemicals, were goods stated to be required in a inquiry from China to the Edinburgh Chamber of Commerce and Manufactures. At the same time products from India were offered including tung oil, botanicals and crude drugs, and hog bristles.

**Long Service Award.**—Upon the occasion of her retirement after many years of her secretarial duties in the offices of Brothers, Ltd., Stockport, Miss A. Garner has been presented by the chairman of the company (Colonel J. C. H. Cross) with a substantial cheque in recognition of her long and devoted service. Congratulations were made to Miss Garner by her colleagues.

**Manchester Golf Season Opens.**—Manchester Golfing Society opened its season at Ringway Golf Club on May 8. A competition for a prize presented by H. C. Hoseason & Co., Ltd., was played under the Stableford system. The leading returns were: J. Taylor (37), R. Demaine. The secretary of the society is Mr. W. Phillipson, 1 Ruthin Avenue, Alkrington, Middleton, Manchester.

**Northern Ireland Closing Regulations.**—Chemists' shops in Northern Ireland are required to close on one afternoon in each week from one o'clock and all day on Sundays under the Shops Act (Northern Ireland), 1946, which came into operation on May 1. The Ulster Chemists' Association is advising the public to find out the hours from their chemist.

**Durham Pharmaceutical Officers.**—At the meeting of the Durham County of the Pharmaceutical Society held, the following officers were appointed: *President*, Mr. T. Melrose, jun.; *President*, Mr. W. Hindson; *Treasurer*, T. Richardson; *Secretary*, Mr. J. A. ; *Auditors*, Messrs. J. Banner and ; *Representatives for conference*, Messrs. T. Melrose, jun., and W. with Mr. J. A. Nichols as deputy.

**Penicillin Demonstrations for Chemists.**—Demonstrations of the dispensing of penicillin to be given at the Durham County, Durham City, by Mr. W. A. (pharmacist), commencing on May three separate sessions will be held Tuesday, Wednesday, and Thursday, and pharmacists wishing to attend telephone Mr. J. A. Nichols (secretary, Durham Branch, Pharmaceutical Society) on : Consett 132) stating day and time referred.

**Chemists' Dramatic Society.**—The Chemists' Dramatic Society (of Eire) held an annual "At Home" in Dublin recently. The present included Messrs. M. Costelloe, President of the Irish Druggists' Association, P. C. Cahill, D. J. Nugent, W. R. Suck, T. O'Keefe, Seamus Fox (chairman, Students' Representative Council), and M. Hanna (chemists' and students' social committee). Officers of the Society are: *Chairman*, Mr. M. Murphy; *Vice-chairman*, Mr. Ward; *Secretary*, Mr. M. G. Power; *Treasurer*, Mr. F. F. Redmond.

**North London Penicillin Courses.**—The Metropolitan Branch of the Pharmaceutical Society has arranged for courses on the dispensing of penicillin to be held on Thursdays at the Royal Northern Hospital, Holloway Road, London, N.7 (from 2.30 p.m.) and at the Prince of Wales Hospital, Tottenham, London, N.15 (from 4.30 p.m.). Each course will consist of one three-hour period comprising a lecture and practical work. The charge is 5s. and members wishing to attend are advised to write as soon as possible to Mr. A. E. Foot (secretary) stating the centre chosen.

**Series Under N.H.S.**—Mr. W. J. Trist, chairman of the Joint Committee on the National Health Service) showed "retained optimism" about remuneration for chemists under the National Health Service when speaking at the annual meeting of the Nottingham Branch of the Pharmaceutical Society recently. In reply

to questions, he considered that the provision of dispensaries in health centres would be retarded by shortage of pharmacists, and that more attractive salaries in pharmacies and health centres would have to be offered to secure staff. He claimed that retail pharmacy was quite capable of providing the new service, and that the great majority of pharmacies could adapt themselves to the increased dispensing. He maintained that there should be payment for attendance outside normal business hours.

**Golf Trophy Meeting.**—The Irish Chemists' Golfing Society held its first outing of the season at the Hermitage Golf Club, Lucan, co. Dublin, on April 28, when there was competition for trophies presented by St. Dalmas (Ireland), Ltd., Coty, Ltd., and Allen & Hanburys, Ltd. In the morning eighteen-holes strokes competition the winner was Mr. M. L. Cashman (16), 68, Mr. T. J. Lynch (8), 74, being runner-up. In the afternoon nine-holes bogey game the winner was Mr. P. McAuliffe (14), all square, the second prize going to Mr. Cashman (14), also all square. At supper later Mr. A. W. Hughes (captain) said he was especially pleased to see so many new members. The captain presented the prizes, and thanks to the donors of prizes was passed on the motion of Mr. Cashman, seconded by Mr. Lynch. Mr. W. F. M. Keys responded. The next outing will be on May 22.

## PHARMACEUTICAL COUNCIL ELECTION RESULTS

THE result of the election for seven seats on the Council of the Pharmaceutical Society of Great Britain, for which there were sixteen candidates, was as follows:—

TRISTRAM, William John	... 4887
MAPLETHORPE, Cyril Wheatley	... 4614
IRVINE, Jean Kennedy	... 3946
SHAW, Granville	... 3544
ISLIP, Mary Cater	... 3462
DAVIS, Charles	... 3406
REID, Thomas	... 3398

*The above are elected.*

STEINMAN, Harry	... 3142
MURRAY, Ronald MacDonald	... 3139
CURRIE, David	... 2833
ARMITAGE, George Henry	... 2645
WALLIS, Thomas	... 2532
CROWE, John Edwin	... 2494
GILMOUR, John	... 2490
ROSS-MANSELL, John	... 2318
FOSTER, Bernard	... 2259

## THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

THE National Health Service Bill received its second reading in the House of Commons on May 2, when an Opposition motion for its rejection was lost by 172 votes to 395.

For the detailed consideration and examination of the Bill, the following Standing Committee of the House of Commons has been set up :—

CHAIRMAN: Mr. F. G. Bowles (Lab.), solicitor (son of an analytical chemist).

Mr. A. Balfour (Lab.), a railway station foreman, and a member of the National Executive, National Union of Railwaymen.

Mr. Norman Bower (Con.), barrister-at-law (Inner Temple).

Mr. T. J. Brown, M.B.E. (Lab.), a miners' M.P.

Mr. A. Gilzean (Lab.), a member of Edinburgh City Council.

Lieutenant William Griffiths (Lab.), a consulting ophthalmic optician.

Mr. John Haire (Lab.), a schoolmaster.

Mr. D. L. Lipson (Ind.), former headmaster of Corinth College, Cheltenham.

Sir Hugh Lucas-Tooth (Con.), barrister-at-law.

Commander J. W. Maitland, R.N. (Con.).

Captain Arthur Marsden, R.N. (Con.).

Mr. A. Moyle (Lab.), a member of Rushcliffe Committee on Nurses' Conditions and Salaries.

Mr. E. Popplewell (Lab.), a railway signalman.

Major David Renton (Lib. Nat.), barrister-at-law.

Mrs. N. Ridealgh (Lab.), National President, 1941-42, of the Co-operative Women's Guild.

Mr. Goronwy Roberts (Lab.), a member of the Court of Governors, University College of Wales.

Dr. Barnet Stross (Lab.), medical adviser to the National Society of Pottery Workers and to the North Staffs Miners' Federation.

Sir Harold Webbe (Con.), Leader of the London County Council Municipal Reform Party since 1937.

The above are the nucleus members of the permanent Standing Committee. The following are members who have been added for the Health Bill itself :—

Mrs. E. M. Braddock (Lab.), a member of Liverpool City Council, 1930.

Dr. L. Comyns (Lab.).

Dr. Richard Clitherow (Lab.), a pharmacist.

Mr. Edward Evans (Lab.), a past-chairman of the College of Teachers of the Blind and of the National College of Teachers of the Deaf.

Lieutenant-Colonel C. Gage (Con.), formerly Deputy Judge Advocate General with the Canadian Forces in Belgium.

Commander T. D. Galbraith (Con.), retired accountant.

Mr. Somerville Hastings (Lab.), curial surgeon to the Middlesex Hospital.

Mr. J. H. Hoy (Lab.), an interior decorator.

Mr. H. N. Linstead (Con.), secretary of the Pharmaceutical Society of Great Britain.

Mr. H. G. McGhee (Lab.), a dentist.

Mr. F. Messer (Lab.), an alderman of the sex County Council, member of the Ham Committee of the National Council for the Blind, and of the executive of the County Councils Association.

Mrs. L. Middleton (Lab.), a teacher and lecturer.

Dr. H. B. W. Morgan (Lab.), chief adviser to the Union of Post Office Workers.

Mr. R. Hopkin Morris (Lib.), barrister.

Sir Henry Morris-Jones (Lib. Nat.), consulting physician to the West End Hospital.

Mr. P. Piratin (Communist), a shipyard worker.

Mr. J. Rankin (Lab.), a teacher.

Mr. J. S. C. Reid (Con.), former Secretary General for Scotland.

Mr. J. W. Snow (Lab.), Vice-Chamberlain, H.M. Household, 1945.

Mr. J. A. Sparkes (Lab.), a clerk in the Western Railway, and member of the Borough Council.

Colonel M. Stoddart-Scott, O.B.E. (Con.), Assistant Director of Services, 48th Division, 1942-45.

Mr. Henry Strauss (Con.), Joint Parliamentary Secretary, 1942-43, of the Ministry of Works and Planning.

Dr. Stephen Taylor (Lab.), editor of "Planning Research."

Mr. S. Tiffany (Lab.), a director of the Industrial Co-operative Society, Ltd.

Sir Wavell Wakefield (Con.), a pharmacist, Member of the executive committee of the National Union of Manufacturers.

Ministry of Health, 1936-45.

Mr. J. L. Williams (Lab.), a journalist, member of Glasgow Corporation.

Mr. H. U. Willink (Con.), a former Minister of Health.

Mr. A. Bevan (Lab.), Minister of Health.

### Medical Requirements in Short Supply

Liquid paraffin and supply of valves were the subject of questions in the House of Commons on May 6. WING-COMMA ROBINSON asked the Minister of Health whether he had now completed his investigation of the channels of distribution of liquid paraffin; and what steps he proposed to take to overcome the present shortage of supplies to retail chemists. Mr. WILMOT replied that the investigation

yet complete. "We do not expect to be able to complete the detailed investigation... until after Whitsun."

MR. STODDART-SCOTT asked the Minister of Supply if he was aware that there was a shortage of rectifying valves for X-ray therapy apparatus; that the shortage was aggravated by exports of too great a percentage of the valves made in this country; and if he would ensure that apparatus needed for the treatment of cancer was allowed to stand idle for that reason.

MR. WILMOT replied that he was aware of any general shortage of the valves, though there was difficulty in obtaining replacements for apparatus of foreign manufacture. Only types of which there was a sufficient supply were being exported.

MR. BELCHER (Parliamentary Secretary) informed a questioner that an increase in the price of deaf-aid batteries was the first increase in the prices of torch and wireless batteries. He had asked the Central Price Regulation Committee to make inquiries.

#### Penicillin Distribution Policy

MR. CLITHEROW asked the Minister of Supply on May 10, in view of the announced Government policy of making penicillin available on prescription to the general public, and from June 1, what consultations he had had with the Pharmaceutical Society of Great Britain over this important question; if he was aware that the terms of the Order, made under the Defence Regulations prescribing the conditions of sale, had not been made known to the Pharmaceutical Society; and why the matter had been decided and given publicity without the professional organisation concerned in the distribution of the product, particularly for National Dispensing, being informed.

JOINT PARLIAMENTARY SECRETARY (MR. LEONARD): We have not yet completed arrangements for the distribution of penicillin. Discussions with the Pharmaceutical Society are taking place. No Order has so far been made.

MR. CLITHEROW: Is the Minister aware that consultations took place with the Pharmaceutical Society at the time the announcement was made and the question decided, and will he see that in future similar organisations are contacted in the same way?

MR. LEONARD: The first task was to establish the channels through which penicillin will flow from the factories to the

initial distributors. So soon as matters were sufficiently far advanced to make such arrangements desirable, a meeting took place. That was on May 8; a further meeting will take place to-day (May 10).

#### Forthcoming Questions

MR. GEORGE WALLACE is to ask the Minister of Agriculture if he is in a position to announce a scheme for the co-operative purchase of fertilisers.

MR. HENDERSON STEWART will ask the Minister of Agriculture what steps are being taken to make penicillin available to veterinary surgeons, in view of the wide demand and urgent need of its application for animal diseases.

MR. WILLIAM SHEPHERD has tabled a question to the Minister of Food, asking if he will not make it obligatory for persons requiring further supplies of orange juice and cod-liver oil under his Department's scheme to return the empty bottle and so help the acute shortage which exists at the present time.

MR. SHEPHERD will also ask the President of the Board of Trade what steps he is taking to reduce the present export rate of empty bottles of over 20,000 gross monthly, in view of the acute shortage that is being experienced in Britain at present.

MAJOR SYMONDS will ask the Minister of Labour how many more ophthalmic lens workers have been offered Class B release since May 7.

#### Amendment to Health Bill

When The National Health Bill entered the Standing Committee of the House on May 14, an Opposition amendment was moved to insert details of organisations to be represented on the Standing Advisory Committees which are to be set up for the purpose of advising the Central Health Services Council. The amendment sought to provide that the Committees should be constituted of representatives of the hospital and specialist services, the general medical services, the dental services, the nursing services, the pharmaceutical services and such others as might be specified.

MR. ANEURIN BEVAN refused the amendment, saying it would tie the hands of the Government. He mentioned that, in the Midwives Act, there were definite instructions as to the composition of the Central Council for Midwives. It was later discovered that they could only be varied by an amending Act of Parliament. He did not wish this Bill to be so rigid.

The amendment was negatived.

## COMPANY NEWS

**J. J. RUSSELL, LTD. (P.C.).**—Capital £1,500. Chemists, druggists, etc. Grace R. Russell and Mabel Green, directors. R.O. : 215 Hamilton Road, Cambuslang.

**W. H. HASTROP (CHEMISTS), LTD. (P.C.).**—Capital £1,000. Chemists, etc. William H., and Iris J. E. Hastrop, directors. R.O. : 72 Manselton Road, Swansea.

**ANGLO-AMERICAN COSMETIC LABORATORIES, LTD. (P.C.).**—Capital £100. Dealers in cosmetics, drugs, etc. Directors to be appointed. Solicitors : Warren, Murton & Co., 45 Bloomsbury Square, London, W.C.1.

**ARROW LABORATORIES, LTD. (P.C.).**—Capital £100. Manufacturers of and dealers in toilet preparations, etc. D. C. Toomey, R. L. Samuels, and C. Mitchell, directors. R.O. : 148 Ben Jonson Road, London, E.1.

**INTERNATIONAL BEAUTY PRODUCTS, LTD. (P.C.).**—Capital £1,000. To carry on business as indicated by the title. Ernest P. Caley and Marjorie J. Burton, directors. R.O. : 2 Clements Inn, London, W.C.2.

**DALCROSE PERFUMERY Co., LTD. (P.C.).**—Capital £100. Chemists and druggists, soap manufacturers, etc. Harry W. K., and Kate I. Pears, directors. R.O. : 2 Hove Park Villas, Hove.

**THERAPEUTIC DEVELOPMENTS, LTD. (P.C.).**—Capital £100. Chemists, druggists, manufacturers of and dealers in specialised foodstuffs, etc. Cyril R. G. Young, John Dyer, William E. Gaunt, and Denis I. Duveen, directors. R.O. : 120-2 Victoria Street, London, S.W.1.

**F. L. K. LOXLEY, LTD. (P.C.).**—Capital £3,500. To acquire the business of chemists carried on by the executors of F. L. K. Loxley at St. Giles Street and North Parade, Oxford. E. F., and C. B. C. Loxley, and W. G. Northey, M.P.S., directors. R.O. : 66 St. Giles Street, Oxford.

**A. E. STANNARD, LTD. (P.C.).**—Capital £1,000. Manufacturers of and dealers in chemicals, toilet requisites, photographic equipment, etc. Albert E. Stannard, Charles H. Scarborough, and Ernest J. Cranshaw, directors. R.O. : 37 Vernon Walk, Tadworth, Surrey.

**SOUTHERWOOD, LTD. (P.C.).**—Capital £1,000. Manufacturers of and dealers in anatomical, orthopaedic and surgical appliances, bootmakers, stay and corset makers, etc. Wilfred D., and Jennie Southerwood, directors. R.O. : Grove Arcade Chambers, Grove Street, Wilmslow.

**WILSON BARRATT (CHEMISTS) (P.C.).**—Capital £5,000. To acquire business of a chemist and druggist carried on by Wilson Barratt at 4 more Green, Brookmans Park, William T. Byard, Frank E., Frank Stella E. Coombe, and Nancy E. directors. R.O. : As above.

**T. E. ADAMS & SON (CHEMISTS) (P.C.).**—Capital £1,000. To acquire business of a chemist and druggist on by the personal representative of Adams, at 70 Granby Street, Liverpool. "T. E. Adams & Son," Elizabeth Dorothy P. Adams, and David W. directors. R.O. : 54 Castle Street, pool, 2.

**W. A. WILLSON (MINERAL WATER) LTD. (P.C.).**—Capital £12,000. To the goodwill, plant, etc., connected with business carried on at the Temperance Brewery, Eastney Street, Greenwich, together with the freehold premises which the said business is carried on to carry on the business of mineral aerated water manufacturers, etc. E. Stevens, James A. Harman, Willson, and Harry L. Lowe, directors. R.O. : 22 Eastney Street, London, S.E.1.

**HODDERS, LTD.**—Payment of a dividend on the ordinary share capital at the 16½ per cent. for the year has been recommended, together with a special cent bonus of 8½ per cent., both less income tax.

**AYRTON, SAUNDERS & Co., Ltd.**—Directors' report for the year ended December 31, 1945, states that balance available is £13,340 out of which a dividend is recommended of 10 per cent., less income tax, on the ordinary share capital, leaving £10,669 to be carried forward. The retiring director (Mr. F. Twells) offers himself for re-election.

**BOOTS PURE DRUG Co., LTD.**—Mr. Hibbins has been appointed to the position of Director.

**ACES SURGICAL SUPPLIES, LTD., Manchester.**—Mr. O. Hirsch, production manager, has been appointed a director.

**BUSH, BEACH & GENT, LTD.**—Mr. Sprange, who has been with the company for about twenty-four years, and Mr. J. M. Mason, have been appointed directors.

**THE BRITISH DRUG HOUSES, Ltd.**—Commander Sir Hugh Trevor Davy Bart., R.N., and Mr. Geoffrey Eley, have been appointed directors.

## TOPICAL REFLECTIONS

### Secure Penicillin

At a time when many of us were growing tired of reading about penicillin, the article "Birth of an Industry" (pp. 593-594) has effectively revived interest in this important substance. Editorial comment and other information in the same issue make up the balance of an up-to-date impression that will be useful for reference. A few of your readers had, I suppose, a sense of the scale on which penicillin is being manufactured in Great Britain. The wide circulation of THE CHEMIST AND DRUGGIST is a means of bringing news of this notable British enterprise to trade circles where it might otherwise remain unknown. Research workers in the laboratories visited by a member of your staff will be seen, continuously engaged in investigations. We may infer that at some future time the demand for penicillin decreases, other moulds will by and by have been found to yield comparable and perhaps superior products by extraction of a similar type. Your remarks on the rôle of pharmacists as distributors of penicillin preparations to the public are timely. Something remains to be done in educating customers not to expect miracles in a few seconds of receiving their supplies. This caution is the more necessary because of the improbability of prescribing giving their patients detailed instructions for using what is prescribed. They may indicate, Government control of the most toxic substance on the lines of the Dangerous Drugs Acts will, if adopted, be a great help.

### The Council Table

Two items in your report of the latest meeting of the Pharmaceutical Society's Council (both on p. 599) are of more than ordinary interest. One item is a reference to a stupid remark in the Daily Press attributing the non-adoption of the metric system in this country to the opposition of pharmacists. The metric system has been legalised in Great Britain at recent times—in 1864 and in 1897. These are due to Mr. F. G. Wells for bringing publicity for a correction of the statement referred to. May I raise the point that in all such cases the question should be given as much prominence as the error? We seem to have heard of a public relations officer who may be expected to deal with these matters. My impression is that he, or someone deputed

by him, should be able to obtain promptly from the secretaries of the Pharmaceutical Society and the National Pharmaceutical Union a letter, signed jointly by them, refuting any such random guesses by uninformed persons. The other item in your report of the same meeting is the treasurer's comment on the cost of the Society's College and of its new headquarters. The view that "possibly the Council might consider the wisdom or otherwise of continuing the School" has been put forward more than once in your columns, though this is the first time, I believe, that it has found admission to a treasurer's report. As to the estimate or assumption that the cost of the new building in Brunswick Square will be about £500,000, many members of the Society and others can remember the sensation caused by an article in your issue of September 15, 1934, giving the total cost of the structure and its site as £257,000.

### Five Anniversaries

The week ending on May 18 contains several anniversaries of births and deaths traceable in books of reference. Five of these merit attention here. Two distinguished botanists, one of the eighteenth century and the other of the nineteenth, died on May 16. Daniel Charles Solander, regarded as the favourite pupil of Linnaeus, held two appointments at the British Museum at different times, and in the interval was a member of an expedition to the Antarctic. His name is handed down in a case for botanical specimens and in the genus *Solandra*. He died in 1782. John Stevens Henslow was Professor of Botany at Cambridge University from 1827 till his death in 1861. One of his students was Charles Darwin, whom he recommended for a post on the scientific staff of the Beagle, thus giving the young naturalist a helping hand on his path to fame. Henslow examined in botany for the University of London. On May 17, 1749, Edward Jenner was born; and on May 17, 1801, William Heberden died. Heberden is remembered in pharmacy by his "ink," *mistura ferri aromatica*, a preparation retained in the British Pharmacopœia till 1898. Fame of a different kind is attached to the name of Samuel Jessup of Heckington, who died on May 17, 1817. At a trial in which he was concerned it was stated that in twenty-one years he had taken 226,934 pills, apart from other items.

**Xrayser**

## BIRTH

**STARK.**—On May 5, Megan, the wife of Alexander Stark, M.P.S., 35 Ferguson Avenue, Renfrew, of a son.

## MARRIAGE

**CAMERON—TAYLOR.**—In Aberdeen, on April 22, George Scott Cameron, M.P.S., youngest son of the late Mr. John Cameron, M.P.S., 17 Percival Road, Inverness, to Isabella Taylor, Tarves, Aberdeenshire.

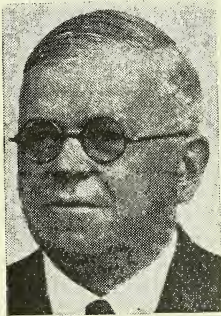
## DEATHS

**FOGGO.**—At Southport, on May 5, Mr. James Douglas Foggo, M.P.S., 11 Sunny Road, Southport. Mr. Foggo qualified in 1907. He was manager of the branch of Boots', Ltd., at Lord Street, Southport.

**KIRKPATRICK.**—Recently, Mr. Alexander Kirkpatrick, Red House, Cloughy, co. Down, brother of Mr. D. L. Kirkpatrick (secretary of the Pharmaceutical Society of Northern Ireland).

**MACLEOD.**—On May 5, Mr. J. D. MacLeod, M.P.S., 104 Main Street, Kilwinning, Ayrshire, formerly of Apothecary Hall, Kilwinning. Mr. MacLeod qualified in 1901. He was an original member of the Ayrshire Pharmaceutical Committee, from which he retired about ten years ago on account of ill health.

**MILLING.**—At Wallasey, recently, Mr. J. Milling, M.P.S., proprietor of John McGuffie & Co., Ltd., chemists, Castle Street, Liverpool, and of Castellan cough mixture and other proprietaries. Mr. Milling first became associated with the business of McGuffie & Co. in 1919, after being in business for some years at Chester. An account of this old-established business appeared in the *C. & D.* (1934. I. 562). The funeral, at Rake



Lane cemetery, Wallasey, was attended by many local chemists. The Liverpool Chemists' Association was represented by Mr. A. E. Briggs and Mr. W. J. Tristram (who also represented the Chemists' Friends Association), and Mr. John Prichard was present for John Thompson (1921), Ltd., wholesale chemists, Liverpool.

**FAULKNER.**—At Willesden General Hospital, London, N.W., on May 3, Mr. Herbert Faulkner, M.P.S., 43 St. Mar Avenue, South Harrow, aged six. Mr. Faulkner was in business at Al Road, Upper Holloway, before taking an appointment at the Brompton Hospital in the pharmaceutical department of which he was employed for twenty-nine years prior to his retirement in 1943.

**RAY.**—On January 11, Mr. C. Wheatcroft Ray, Ph.C., 5 Victoria Street, Felixstowe, Suffolk. Mr. Ray qualified as a chemist and druggist in 1893 and passed the Pharmaceutical Chemist examination the following year.

**SNOW.**—On April 18, Mr. Leonard Snow, M.P.S., 1c Elphinstone Road, Hastings, aged seventy-two.

**THOMPSON.**—At a nursing home, Edinburgh, on May 4, Mr. Robert Thompson, 104 Raeburn Place, Edinburgh, aged seventy-three. Mr. Thompson qualified as a chemist in 1900.

**WILLIAMS.**—At Awelfrin, Criccieth, on April 30, Mr. David Edward Williams, M.P.S., Temple Street, Llandrindod, aged thirty-seven.

**YOUNG.**—On April 17, Mr. G. Atkinson Young, M.P.S., 201 King Street, Hoyland, Barnsley, Yorks, aged forty-

## WILLS

**MR. JOHN BACON**, retired mineral manufacturer, 3 High Street, Burnley, on-Crouch, Essex, left £513.

**MR. JAMES WATT, LL.D.**, 7 Black Road, Edinburgh, chairman of T. & H. Smith, Ltd., wholesale and manufacturing chemists, left £218,455.

**MR. GILBERT LAWRIE**, 35 Liberton Road, Edinburgh, formerly of Lawrie & Co., importers, left personal estate in Great Britain valued at £7,040.

**MR. AARON HENRY SHAPEERO**, Gardens, Bramcote, Notts (Sharples and opticians, Wheeler Gate, Nottingham), left £19,836, with net personalty nil.

**MR. FREDERICK STOCKS**, 223 Burnley Road, Accrington, Lancs, mineral water manufacturer, left £8,706, with net personalty £7,075.

**MRS. MABEL JANE SHARPE**, 39 Ivy Street, Thornton Heath, Surrey, wife of Mr. Leonard P. Sharpe (Sharpe's Sons Chemists, Ltd., Thornton Heath, Surrey), left £432.

## PERSONALITIES

**HARRY BRINDLE, B.Sc. (London), F.R.I.C.,** at present senior lecturer, in Pharmacy, Manchester University, has been



appointed Professor of Pharmacy as from September 29. The appointment is announced by the University Council. Professor Brindle joined the University staff in 1928, and became senior lecturer in pharmacy and head of the department in 1935. Under his direction there has been a notable

movement in the department, not only in the number of students, but also in the amount and quantity of research work in the department. Professor Brindle

for two years (1943-44 and 1944-45) President of the British Pharmaceutical Association. He has been chairman of the Council of the Pharmaceutical Society since 1938, and is honorary consulting chemist to the Manchester Royal Infirmary, the Salford Royal Hospital, and the Manchester municipal hospitals.

**P. R. DUNCAN, M.P.S.,** Irthlingborough, Northants, was recently elected chairman of the local urban district council.

**D. V. N. BROMFIELD, J.P. (wife of the Director of THE CHEMIST AND DRUGGIST)** presented by the Queen, at Buckingham Palace on May 9, with the Red Cross Distinguished War Services award. Mrs. Bromfield was Commandant of a First Aid Post on the Thames Estuary from August 1940 to May 1945. Air-raid casualties at the Post totalled 631.

**LAWRENCE HEWITT,** manager for Wall and Riley, Ltd., Newport Street, Lanchester, Lancs, received a presentation from his colleagues on May 10 upon the occasion of his retirement after fifty years' connection with pharmaceutical business in the town. Mr. Hewitt first settled in the town in 1896 as an assistant at the pharmacy of Mr. H. B. Pare, Churchbank. He was transferred to a branch in Deane which was later acquired by Wall and Riley, Ltd. Subsequently, he went to the company's Bradshawgate shop, where he remained for over thirty-three years, thirty of them as shop manager).

## BUSINESS CHANGES

**COLLEGE LABORATORIES, LTD.,** have removed to The Tower, Warmley, nr. Bristol.

**MR. C. H. SLOBURN** has taken up an appointment as manager with Taylor MacArthur, Ltd., 271 Wakefield Road, Huddersfield.

**JOHNSON & JOHNSON (GT. BRITAIN), LTD.,** surgical dressing manufacturers, have been granted factory space on the Marcheviel trading estate, Wrexham, Denbigh.

**BEECHAMS PILLS, LTD.,** St. Helens, have obtained permission to build factory extensions across part of Silver Street, St. Helens, and an adjoining passageway.

**THE SCOTTISH CO-OPERATIVE WHOLESALE SOCIETY, LTD.,** Shieldhall, has acquired the business of Green & Campbell, chemists, 503 Castlemilk Road, Croftfoot, Glasgow, S.4.

**MR. J. W. HUGGINS, M.P.S.,** has taken over the business of Mr. A. G. Marshall, M.P.S., 43-45 Bridge Street, Morpeth, Northumberland, after serving with the Royal Navy.

**CRESSWELL BROS. & MARKS (INTERNATIONAL SPONGE IMPORTERS, LTD.),** are removing to 5a Buck Street, Camden Town, London, N.W.1, on May 20. (Telephone: Gulliver 5462-63.)

**MR. THOMAS MARNs, JUN., M.P.S.,** has rejoined Thomas Marns, Ltd., 2 Caxton Street, London, S.W.1, after four-and-a-half years' service with the Directorate of Medical Supplies.

**MR. C. D. YOUNG** (managing director, Dalton Young Products, Ltd., Bristol) has acquired the business of College Laboratories, Ltd., manufacturing chemists, Warmley, nr. Bristol.

**CHAS. ZIMMERMANN & Co., LTD.,** dealers in perfumery and soap-making materials, has removed to new factory premises at 132 Western Road, Mitcham, Surrey. Inquiries should continue to be addressed to the company's office, 9-10 St. Mary-at-Hill, London, E.C.3.

**MR. JOSEPH HUTCHINSON, M.P.S.,** has taken over the direction of sales and distribution activities of Glaxo Laboratories, Ltd., Greenford, Middlesex. Previously he held an overseas post with the company. Mr. E. Preston (a director) who has been in charge of the department during the war, will concentrate on the formation of new publicity and public relations departments.

## TRADE NOTES

**Feeding-bottle Teats.**—Supplies of rubber teats for feeding bottles are available from Esco (Rubber), Ltd., 99 Kingsland High Street, London, E.9.

**Tablets For Export.**—Export inquiries relating to tablets, pills, lozenges, suppositories, etc., are invited by Matthews & Wilson, Ltd., 6-8 Cole Street, London, S.E.1.

**Banking Services.**—Various types of banking services which are offered by the Midland Bank, Ltd., were outlined in an announcement by the company in a recent issue of the *C. & D.*

**Beetle and Cockroach Poison.**—A phosphorus poison for the destruction of beetles and cockroaches is available under the Rodine trade mark from T. Harley, Ltd., Perth, Scotland.

**Display Carton.**—Chemists are invited to order at once a display carton for Aero-ped foot ointment from the sole distributors, S. Maw, Son & Sons, Ltd., Aldersgate House, New Barnet, Herts.

**"Perfect" Insect Repellent.**—Di-Meepol, which is claimed to be the "new perfect insect repellent," is offered on generous terms, carriage paid, by George Christie & Co., 84 Moss Lane West, Manchester, 15.

**Glucose Confectionery.**—Details of the distribution arrangements of Vita-glucose, glucose confections and medications and vitalised stomach powder are given in this issue by A. L. Simpkin & Co., Ltd., Sheffield.

**Medical Books.**—Under this title a 64-page booklet catalogue of text-books on medical, surgical, nursing, dental and scientific subjects is available from E. & S. Livingstone, Ltd., 16 and 17 Teviot Place, Edinburgh, 1.

**Liquid Insect Repellent.**—Burroughs Wellcome & Co. (The Wellcome Foundation, Ltd.) London, are offering a liquid insect repellent under the brand name Sketofax in gelatin "unit containers," which are available in waxed cartons of twelve.

**Preparations for Culture Media.**—Oxo, Ltd., Thames House, Queen Street Place, London, E.C.4, direct attention to their Oxoid brand bacteriological peptone, and Lab-Lemco, which have been specially prepared for use in biological laboratories.

**Change of Title.**—In a new form, and under the new title Mispép, Hewlett's mist. pepsinæ co. c. bismutho is being made available in amber bottles of 8 and 20

fl. oz. by the manufacturers, C. J. & Son, Ltd., 35-43 Charlotte Road, E.C.2.

**Supplies in Wholesalers' Hands.**—Silf Co., Ltd., 39 Shaftesbury London, W.1, announce that they have supplies of Silf, a slimming preparation that is being brought to the attention of the public by all-the-year-round advertising.

**America Visit.**—Dr. S. P. Rety, medical director of Clinical Products, Ltd., Richmond, Surrey, left England on May 1 for an extended business tour of the American continent, in the course of which he will visit the United States, Canada, Mexico, and several of the Latin-American countries.

**Now on Telephone.**—British Silf Co., Ltd., have moved in to their new offices at 167 Great Portland Street, London, W.1, but ask the indulgence of clients for the inconvenience that may have been caused to clients before the telephone was installed. The telephone link-up has now been completed; the number is Welbeck 655.

**Pine-needle Extract.**—Supplies of the brand's "original" pine-needle extract are available, in bottles of 6, 12, 20 and 50 ccs., through the sole distributors, H. J. Jaccas & Co., 32 Shaftesbury London, W.1. The makers are Hildebrand & Co., 61 Fortune Green Road, London, N.W.6.

**New Show Material.**—An offer to any chemist, upon request, a set of coloured showcards for Mothaks and their preparation is made by the manufacturer, Thompson & Capper Wholesale, Ltd., Speke Hall Road, Liverpool, 19. Each set measures 52 in. by 32 in., and is covered with strut.

**Rubber Bathing Caps.**—An offer to immediately sample rubber bathing caps at 100 per cent. natural material is made in this issue by L. Joseph (Rubber Manufacturing), C, Regent House, 30 Cannon Street, Manchester, 4. Full details of terms of delivery are given in an announcement on another page.

**In Improving Supply.**—Limited supplies of raw materials for the manufacture of Sebosyn and of Steiner's S3 shampoo are enabling the manufacturers, Dr. Steiner, Ltd., 66 Grosvenor Street, London, W.1, to offer increased quantities of these specialties to chemists, who are invited to order on the makers for trade terms.

**Ant Fly Campaign.**—Fubex, Ltd., 47 Abchurch Lane, London, W.1, have initiated a national advertising campaign for fly powder and liquid for the destruction of beetles, cockroaches, moths, flies and crawling insects. The sole agents in the pharmaceutical trade are Harley Simm & Co., Friar Lane, Leicester.

**From From Crickets.**—It is pointed out by Imperial Chemical Industries, Ltd., 100 Abchurch Lane, London, S.W.1, that crickets are particularly on refuse tips and waste ground during the early summer, making an appropriate time for attacking them. Gammexane dust D034 is available for this purpose from the company in 56-lb. and 112-lb. packages. The total of supplies is limited.

**Display Material Available.**—To support a national advertising campaign for Plesox (a topical treatment, the manufacturers, Grant Laboratories, Ltd., 108 Mortlake Road, Kew, Surrey, are offering an attractive display material and bonus terms, which are set out in an announcement elsewhere in this issue. The distributors are Glendora, Ltd., Beastmarket Hill, Nottingham.

**Contrast Media.**—The range of contrast media offered by Pharmaceutical Specialities (May & Baker), Ltd., Dagenham, includes Neo-hydriol brand iodised ethyl oil of poppy seed oil, in both fluid and solid varieties; Opacol brand iododiolin; pheniodol suspension and granules for oral demonstration in cholecystography; Uropac brand iodoxyl solution; Iridone brand diiodone solution; Uriodone brand diiodone compound solution.

**Reductions.**—On May 1 the prices of potentency Ostelin tablets and capsules were reduced by the manufacturers, Glaxo Laboratories, Ltd., Greenford, Middlesex. A retail pack of 1,000 tablets has been reduced, and two new dispensing packs of capsules, containing 100 and 1,000 respectively, are also being marketed for the first time. Both preparations are tax-deductible subject to a trade discount of 5 per cent. Full details of the new prices can be obtained from the company.

**Industrial Exhibition.**—An exhibition to demonstrate the specialised products and services of Johnson, Matthey & Co. Ltd. is being held at Dorland Hall, Lower Grosvenor Street, London, S.W.1, from May 13–26. The applications of the company's products in an ever-widening range of industries may then be seen for

the first time as a comprehensive whole. Admission to the exhibition will be by invitation card only, and applications for cards should be addressed to the exhibition secretary of the company, 73–83 Hatton Garden, London, E.C.1.

**Goitre Survey.**—The current number of "Iodine Facts," issued by the Iodine Educational Bureau, Stone House, Bishopsgate, London, E.C.2, is devoted to a world survey of goitre. The survey, which occupies ninety-six small quarto pages, deals with the causes and distribution of goitre, geological features, cretinism, and preventive measures, including the use of iodised salt. A large map of the world showing goitrous areas accompanies the booklet, and the relation of goitre to geological formations in England, Switzerland, Northern India and the United States is set out in an informative table.

**Continental Mineral Waters.**—Importers of the more famous natural waters from France, such as Vichy (State Springs), Contrexeville, Vittel, Evian, etc., and from other countries, are still not capable of supplying, because the necessary licences are not being granted by the Import Licensing Department, despite numerous inquiries and orders received by agents in this country since the liberation of France. It is understood that requests from the medical profession, from all sections of the trade, and from catering firms which in the past have handled these specialities, are being increasingly received.

## Proprietary Articles Trade Association

**Alterations to Protected List.**—J. G. Ingram & Son, Ltd., Perfex enema, 5s. 4d., 46s. 4d. doz.

**Wigglesworth, Ltd.** Revised prices and terms, May 20 :—Opas Maclean powder, 10s. 6d. doz., tax 1s. 7½d. doz., i.r.p. 1s. 6d., 1-doz. lots 10s. 3d. doz.; 18s. 9d. doz., tax 3s. 0½d. doz., i.r.p. 2s. 6d., 1-doz. lots, 18s. 3d. doz. Window display terms (fourteen days' display), three or six doz. medium-size powder, 9s. 4d. doz., twelve doz., powder, 9s. doz., three or six doz. large-size powder, 18s. doz.; twelve doz., 17s. 6d. doz. Opas Maclean tablets, 6s. 6d. doz., tax 1s. doz., i.r.p. 10d.; one-doz. lots, 6s. doz.; 10s. doz., tax 1s. 6d. doz., i.r.p. 1s. 4d.; one-doz. lots, 9s. 6d. doz. Window display terms (fourteen days' display), available on parcels on six doz. and upwards only: 5s. 6d. doz. and 9s. doz. Pooled quantity rates for assorted sizes only. Powder and tablets may not be grouped. Parcels £1 and upwards carriage paid.

**Bayer Products Ltd.**, 80-oz. size Betaxan elixir, although still available, is not being quoted in P.A.T.A. List.

**'TRIAD' CHERRY** *Flavoured* **MALT & OIL**

**COLD CURE CAPSULES**

**'VYTINA' TONIC TABLETS**

**HALIBUT OIL & MALT**

**TONIC PHOSPHATES**

**TIN OX TABLETS**



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# THE CHEMIST AND DRUGGIST

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Official Organ of The Pharmaceutical Society of Great Britain, The Pharmaceutical Society of Northern Ireland, The Chemists' and Druggists' Society of Scotland, and of other Chemists' Societies in the Empire

VOLUME LV MAY 18, 1946 NO. 3458

## Overseas Trade by Volume

The trend of overseas trade on a quantitative basis can now be reviewed as a result of the publication in the "Board of Trade Journal" of figures for each quarter of 1946, for the whole of that year, and for the last quarter of the present year, recalculated on the basis of 1938 prices. The following table shows the summary results for the first quarter of 1946 and for each of the preceding four quarters for United Kingdom exports (trade in £ millions).

Quarter	Trade as declared	Trade on basis of 1938 average values	Index Numbers (1938 = 100)	
			Average values	Volume
1935	470.8	470.8	100	100
1936				
1st quarter	73.0	38.7	189	33
2nd quarter	103.9	56.4	184	48
3rd quarter	100.1	54.3	184	46
4th quarter	119.2	64.2	186	55
1946				
1st quarter	184.2	98.9	186	84

The value of United Kingdom exports rose by £65 millions to £184 millions in the first quarter of 1946. Rather more than one-fifth of the total value was accounted for by exports of relief and rehabilitation supplies and shipments abroad by organisations. The volume of total United Kingdom exports during the same quarter rose 4 per cent. of 1938, the rise compared with the previous quarter being more than would have occurred had exports in the first quarter not been affected by the

dock strike. Owing to some goods accumulated during the strike period not being exported until January the volume figure is slightly too high as representing the amount of goods coming forward for export during the quarter.

According to a table showing the volume of exports in the first quarter of 1946, compared with the year and fourth quarter of 1945, and with 1938, "chemicals, drugs, dyes and colours" were valued at £15,898,000 for the first quarter of 1946, but the value at 1938 prices was £9,176,000. This compares very favourably with the quarterly average (at 1938 prices) for 1945 at £5,811,000. According to the index numbers of volume the first quarter of 1946 was 165, the fourth quarter of 1945, 117 and the whole of 1945, 104.

## Research in the Society's College

THE considerable volume of work conducted by the research departments of the Pharmaceutical Society's College tends sometimes to be relegated to the "back-room," so that the department's report for 1945 recently published makes profitable study. Carried out with the assistance of twenty-three men and women, who volunteered as "human guinea-pigs," the research on the human requirements of vitamin A conducted by Dr. Coward has borne significant results. Dark-adaptation and other tests showed that the vitamin A reserves of subjects on a diet devoid of vitamin A became exhausted only after one to two years. Considerable search has been made in the field of antibacterial agents by the department of pharmaceutical chemistry, and other reports of everyday application come from the departments of pharmaceuticals, pharmacognosy, and pharmacology. Routine determinations of vitamins for the Ministry of Food, and routine pharmacological tests for manufacturers, Government departments and a county health department complete the picture of the laboratories' work; and in this respect provisions for protecting the "morale" of the research workers engaged in routine testing, and of encouraging co-operation between producer and pharmacologist, indicate the aliveness of the directors to the trend of contemporary outlook.

## WORLD'S LARGEST PENICILLIN FACTORY

The new Speke penicillin factory at Liverpool, which is stated to be the largest in the world, is operated by the Distillers' Co., Ltd. It is the second "deep culture" plant constructed with the assistance of the Ministry of Supply (see "C. & D.", May 11, p. 590) and has already exceeded its target production figure. The plant was visited by a member of the "C. & D." editorial staff on May 9 and his impressions are given below.

THE most striking feature of the Speke penicillin factory is perhaps the "sterile area." In this temple of asepsis, every possible protection has been taken, regardless of cost, to ensure the sterility of the final product of penicillin, and an interesting expedient is the flooding of the area with a high concentration of ultra-violet light so that all surfaces of the rooms and equipment are continuously subjected to ultra-violet sterilisation. A group of eight totally-enclosed rooms constitutes the sterile area; access is gained only through a surgical dressing room, and all persons entering conform to sterility precautions as though entering an operating theatre, including washing with antiseptic soap, and donning sterile clothing, shoes, and rubber gloves; masks and visors are necessary to protect operators from the ultra-violet light. Sterilised air, adjusted to optimum temperature and humidity, is fed in, and a slight positive pressure precludes the leakage inwards of unsterile air at the entrance door.

Two sets of air scrubbers in the form of three towers about 60 ft. high provide the immense volume of sterile air required to feed the sterile area, fermentation tanks, and seed tanks. Air is forced up each of the towers in turn, where it is thoroughly washed with a counter current of a suitable non-volatile antiseptic solution (e.g., sodium carbonate and chlorate). Finally, high-speed "cyclones" remove every trace of spray carried over. Each set of scrubbers is sterilised with steam when not in use. An ingenious and efficient machine of interest to industrial pharmacists is the rotary filter for removing the slimy mycelium after fermentation. A cylindrical grill revolving on a horizontal axis dips into the mycelium suspension, suction draws the clear filtrate through the grill and leaves the mycelium adhering to the drum like a felt: on reaching the other side of the drum the mycelium is blown off cleanly by blasts of air from inside.

### Details of Process

The strain of *Penicillium notatum* used at Speke gives a far greater yield of penicillin than the original strains. It is a new form, or mutant, discovered by American workers

by treating an existing culture with oxygen. The basis of the growth medium is steep liquor, which contains protein and lactic acid, obtained from the soaking of maize during starch manufacture. A quantity of the penicillium strain (*C. 76*) is cultured under controlled conditions of temperature, medium, and pH, and the mould multiplies it is transferred to larger and larger flasks. To ensure that growth takes place throughout the whole mass instead of only at the surface, the mycelium are agitated continuously. To control the growth of the mycelium, this "seed mycelium" is transferred to tall "seed tanks" containing 300-400 gall. of sterile medium. Temperature is maintained at 73°F. and immense volumes of sterile air are blown through to provide oxygen necessary for deep growth. At the end of twenty-four hours, growth is complete, the mycelium fills the seed tanks and is at the right stage of development for the production of penicillin, which is the next process. For this the fully-grown mycelium is pumped aseptically to a battery of four fermenters of 10,000 gall. capacity and 15 ft. in height, containing more sterile medium. After four days under conditions similar to those of the seed tanks the penicillin concentration is at its maximum.

### Extraction of Penicillin

The contents of the fermenters are pumped as a yellow aqueous sludge to a rotary filter where the mycelium is removed and discarded. To the clear filtrate, activated carbon is added, which adsorbs the penicillin, and is filtered off. The penicillin is liberated from the carbon by dissolving in acetone, the carbon being filtered off and re-used. The acetone solution of penicillin is concentrated by distillation *in vacuo*, and the acetone recovered. The concentrated solution is extracted further with acidified amyl acetate, and a centrifuge revolving at about 15,000 r.p.m. is used to break down the emulsion formed in the process. The fraction containing penicillin is extracted with either sodium or calcium alkali giving a solution of the sodium or calcium salt. This solution is further purified and concentrated to the required potency.

## Final Drying

The final solution is sterilised by filtration through a Seitz bacterial filter as a precaution against contamination during the evaporation processes, and at the same time passed into the sterile area. Measured volumes equivalent to 100,000 units are pipetted off by special machines into sterile bottles; frozen at 60° C; and removed to freeze-drying ovens, which are evacuated to the amazingly low pressure of 10 microns of mercury. Under these conditions the water is removed in the solid phase (by sublimation) and is scraped mechanically from a condenser cooled with liquid ammonia gas. After a few hours, when sublimation has ceased and a dry powder of penicillin is left, the bottles are closed against bacteria with sterile rubber caps and metal seals. They then leave the sterile area for labelling and ordinary handling. The two-stage vacuum-pump system used for vacuum drying is a masterpiece of chemical engineering. "Roughing" oil-sealed rotary pumps, in the first stage, reduce the pressure to about 300 microns; a second oil purification system continually removes condensed water which would otherwise "flash back." The second stage is performed by diffusion pumps using chlorinated hydrocarbons with a vapour pressure lower than that of mercury, and these control the reduction to about 10 microns.

## Penicillin Potency

The potency of the penicillin in production at Speke is on an average over twice the legal minimum (700 against 1,400 units per mgm.) and is increasing. The Heatly plate ring method of assay of penicillin is found to give an accuracy of about  $\pm 10$  per cent. Freedom from endotoxins has been a happy feature of the penicillin produced in the plant, and, so far, not one batch has had to be rejected on a score or because of toxicity. Special precautions of rabbits and mice for these tests are kept under conditions almost like those in an isolation hospital; sterile conditioned air is laid on, and diets are carefully planned. Although the plant only went into production on January 1, the target figure of 20,000 mega units was surpassed in April, and, by early May, the weekly production was up to 30,000 mega units and is still growing. Handling, under sterile conditions, almost astronomical numbers of small bottles appears, at the moment, to be no problem; when this problem of packing is solved the possibilities of penicillin production seem almost unlimited.

## PENICILLIN NOTES

THE following notes on manufacturers' penicillin distribution policies are additional to, or in modification of, the advance notes given in last week's issue of the *C. & D.* (p. 594).

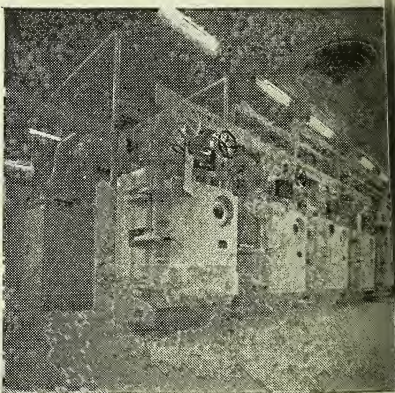
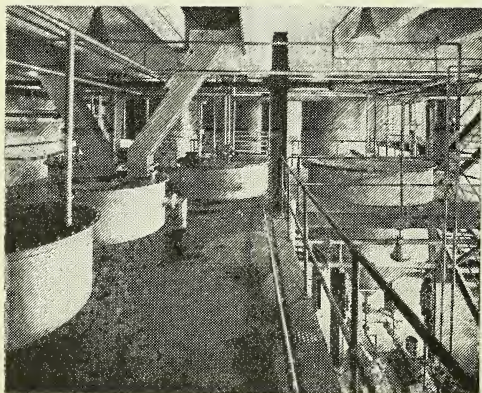
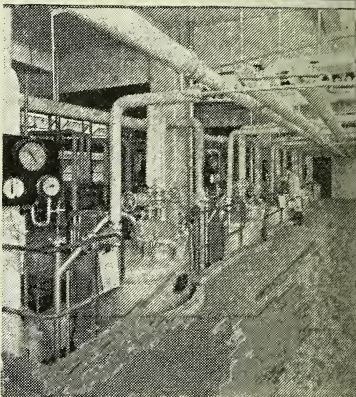
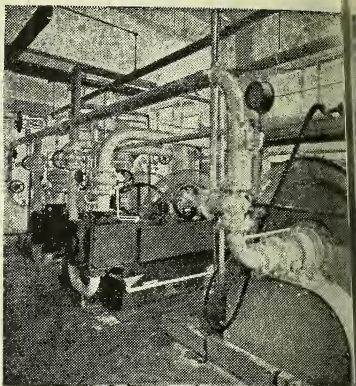
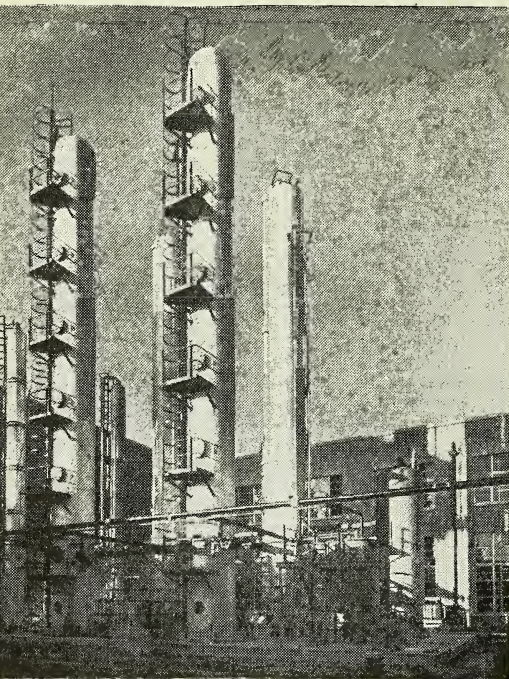
THE BRITISH DRUG HOUSES, LTD., Graham Street, City Road, London, N.1. The following list of products available from the company from June 1 cancels the list previously given: Penicillin (sodium salt) in rubber-capped vials for injection, containing 100,000 and 200,000 international units. Vials containing 500,000 and 1,000,000 i.u. will be available later. Penicillin oil-wax suspension B.D.H., a sterile suspension of beeswax in ethyl oleate containing 125,000 i.u. penicillin (sodium salt) per mil, issued in rubber-capped vials each containing 10 mls. Penicillin lozenges, B.D.H., in bottles of fifty, each lozenge containing 500 i.u. penicillin (calcium salt). Penicillin ointment, B.D.H., in jars containing 1 oz. (1,000 i.u. penicillin (calcium salt) per gm.). Penicillin ophthalmic ointment, B.D.H., in tubes containing 1 drachm (1,000 i.u. penicillin calcium salt per gm.). The issue of the two penicillin ointments by June 1 is dependent upon authority for their distribution being received in time from the Ministry of Supply.

BURROUGHS WELLCOME & Co. (THE WELLCOME FOUNDATION, LTD.), London, will have available on June 1 penicillin sodium and calcium salts for injection. Wellcome and Tabloid penicillin products will be made available shortly and a booklet "The Pharmacy of Penicillin," dealing with dispensing technique, is available to pharmacists on request.

KEMBALL, BISHOP & Co., LTD., Crown Chemical Works, Three Mill Lane, Bromley-by-Bow, London, E.C.3, are offering to the medical profession and institutes, and to manufacturers of ointments, snuffs and lozenges, penicillin (calcium salt) of their own manufacture for which they claim that the company's product with its stability for long periods at room temperatures is especially suitable. It is pointed out that the company was one of the pioneer manufacturers in this country.

PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD., point out that their appointment as distributors dates from the Minister's announcement of the release of supplies. The unitage of the vials that will be available from June 1 is 100,000 and not as given last week.

# PROCESSES

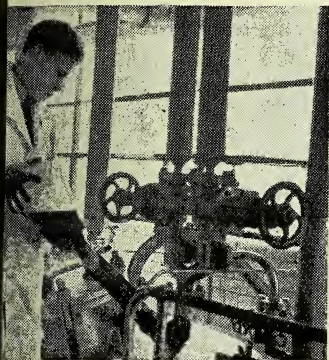


6. Penicillin which has been adsorbed by activated carbon is redissolved by organic solvents in the vessels (shown above) in the process of purification.

7. In these vacuum ovens the frozen solution of penicillin is freeze-dried. Armour-plated doors are needed to resist the ten-ton pull of vacuum which is applied.

# PENICILLIN PRODUCTION

## T SPEKE

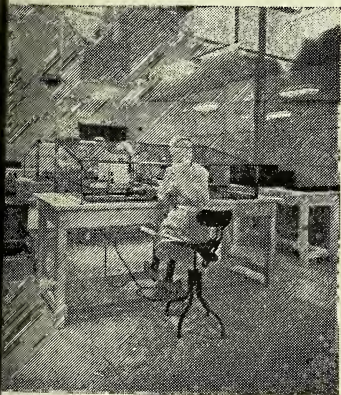
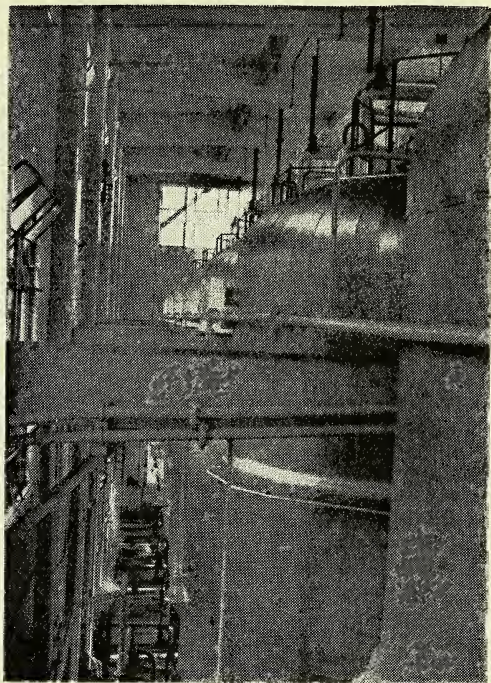


R-SCHUBBERS. An immense volume of air  
is forced through these towers for sterilisation.  
The workers remove the mycelium from the  
broth as a continuous felt.

The 400-gal. seed tanks as seen from  
the platform.

of *Penicillium* being injected into a seed  
medium for completion of growth.

The 10,000-gal. fermenters in which the  
penicillin is produced.



through a plate glass window into the  
bottles. Under the glass hood and stainless  
steel, bottles are filled with penicillin  
by a special machine.



9. Rabbits in the stocks for testing rising temperature after injection with penicillin; the temperature is taken every hour and the animals keep calm in the stocks.

## C.F. BADGE COMPETITION

THE directors of The Crookes Laboratories, Ltd., one of whose number (Mr. E. W. Godding) is this year's chairman of the Chemists' Friends Association, have decided to mark the occasion by presenting to the Association a chairman's badge of office (see also p. 628). For this purpose, they have authorised the Wardens of the Worshipful Company of Goldsmiths to announce a badge-design competition, which will be conducted through the Design and Research Centre at Goldsmiths' Hall, London. A gold badge of office, with chain or ribbon, is desired. Designers will have a free hand as to materials and treatment, but the chain or band should be such as can be worn by the president on ceremonial occasions. It is suggested that gold, silver, enamels, ivory and other materials should not be ruled out. The allowed cost is £500, to include purchase tax, and a sum of £50 is to be paid to the winning designer, with small prizes to runners-up. The competition is open to all British designers, but persons working for manufacturers or retail firms must submit designs with the concurrence of their employers; firms submitting designs should give the names of their designers. The winning designer will be responsible for supervising the production of his design. Drawings should not exceed 2 ft. 6 in. square, and should include working drawings showing plan, elevation and section.

### Judges Appointed

The judges in the competition are Mr. Philip James (Arts Council of Great Britain); Major C. T. P. Bailey (formerly of metalwork department, Victoria and Albert Museum); Miss Joan Evans; Mr. C. C. Oman (department of metalwork, Victoria and Albert Museum); Dr. Charles Holden, F.R.I.B.A. (Consultant on the City of London Plan); Mr. R. R. Tomlinson, A.R.C.A. (Principal, L.C.C. Central School of Arts and Crafts); Mr. Harold H. Holden, A.R.C.A. (Principal, Birmingham College of Arts and Crafts); Mr. J. H. Harwood (Principal, Sheffield College of Arts and Crafts); Mr. W. Hornby (National Union of Gold, Silver and Allied Trades); a representative of The Crookes Laboratories, Ltd.; and a representative of the Design and Research Centre. Designs should be sent to the Design and Research Centre, Goldsmiths' Hall, Foster Lane, E.C.2, to arrive not later than Wednesday, May 29, 1946.

## C. & D. DISPENSING PRICE LIST

THE following changes in the prices and galenicals listed in the C. & D. dispensing Price List took place during

Cost		<i>Due allowance has been made for purchase tax in both cost and dispensing prices</i>	Dispensing Price		
			4 oz.	1 lb.	10 lb.
24	lb.	Alumini sulphas ..	s. d.	s.	
102	lb.	Anthemidis flores Belg. ..	0 11	0	
183	lb.	Bismuthi carbonas ..	3 9	1	
18	oz.	Bismuthi citras ..	6 6	2	
17	oz.	Bismuthi subgallas ..	—	2	
38	lb.	Cumini fructus pulvis ..	—	2	
42	lb.	Emplast. plumbi S.I (5) ..	1 5	0	
91	dr.	Erythrityl. tetra-nit. dil. P.I (9) ..	1 7	0	
9	oz.	Euphorb. gum. pulv. ..	pergr.	0	
476	oz.	Ext. cannabis indicæ D.D. ..	—	1	
42	oz.	Ext. gelsemii S.I (5) ..	pergr.	0	
126	lb.	Ext. kolæ liquidum ..	—	6	
133	lb.	Lin. bellad. meth. S.I (5) ..	4 7	1	
42	lb.	Lin. camph. amm. meth. P.I (9) ..	4 9	1	
112	lb.	Lin. methyl. salicyl. co. P.I (12) ..	1 7	0	
66	lb.	Liq. toluat. ..	4 0	1	
42	lb.	Magnes. hydroxidum ..	2 5	0	
47	oz.	Menthol ..	1 6	0	
140	oz.	Menthylis valerianæ ..	—	7	
48	oz.	Oleo-resin. capsici ..	—	—	
46	oz.	Ol. cajuputi ..	—	6	
36	lb.	Ol. olivæ (Pool) [corrected] ..	1 3	0	
75	oz.	Ol. pulegii exot. ..	—	10	
84	dr.	Pituitarium (whole) ..	pergr.	0	
23	lb.	Plumbi acet. pur. P.I (8) ..	0 10	0	
15	lb.	Plumbi oxidum rubrum ..	0 8	0	
23	oz.	Potassii guaiacoli sulphonas ..	—	3	
22	oz.	Senegæ rad. pulv. ..	—	3	
84	oz.	Sodii glycocholas ..	—	12	
60	lb.	Sodii sulphocarb. pulv. ..	2 2	0	
17	oz.	Spt. cajuputi ..	—	2	
23	lb.	Syr. toluatanus ..	1 2	0	
35	lb.	Ung. adipis lanæ hydros. ..	1 3	0	
31	lb.	Ung. calamin. aquos. N.W.F. ..	1 2	0	
100	lb.	Ung. iodoformi ..	3 7	1	
63	lb.	Vin. ferri ..	2 4	0	
15	lb.	Zinci oxidum ..	0 8	0	
60	lb.	Zinci sulphocarb. pulv. ..	2 2	0	

## CHIEF OFFICIALS OF DRUG AND PHARMACEUTICAL ORGANISATIONS



**MR. D. L. KIRKPATRICK, L.P.S.I., M.P.S.N.I.**  
Secretary, Pharmaceutical Society of Northern Ireland

## CHEMISTS' FRIENDS ASSOCIATION

A MEETING of the Chemists' Friends Council was held on May 2, the president (Mr. E. W. Godding) in the chair. The meeting was preceded by meetings of the C.F. Standards and the C.F. Propaganda Committees.

MR. E. W. GODDING, on behalf of Crookes Laboratories, Ltd., reported that the design for the proposed chain of office which they were presenting to the Association (see p. 626) was being made the subject of a national competition, and that a special committee had been set up by the Goldsmiths Hall to select the best designs submitted. It was hoped that the selected designs would be available for inspection by the C.F. Council at its next meeting.

Three applications for manufacturer membership of the Association were reported by the C.F. Standards Committee to have been considered, and the Committee recommended that the C.F. Council should defer consideration of two applications to enable further information to be obtained, the third application (from B. Hooper & Co., Ltd., 6 Railway Place, Fenchurch Street, London, E.C.3) being accepted. The schedule to the company's agreement covers all eligible pharmaceutical products including Camthol.

Further consideration was given to an application for the addition of a product to the schedule of an existing C.F. agreement. Objection had previously been taken to the literature packed with the product, and the manufacturers had stated that new literature was to be produced at a later date. The Committee recommended that consideration of the application should be deferred until new literature was available.

In view of possible repercussions of the National Health Service on the sale of proprietary medicines, the Committee considered that an opportunity had arisen to offer a service to C.F. manufacturers in reviewing labels, literature and advertisements relating to their products, particularly those offered for sale direct to the public through pharmacists; the Committee recommended that such a service be offered to manufacturer members of the C.F.A. The recommendations were considered and adopted.

Four applications for wholesaler membership of the C.F.A. were considered. Three were refused, but an application by Northern Pharmaceuticals, Ltd., Galen House, Gratton Road, Bradford, was accepted.

A detailed scheme was submitted to the C.F. Propaganda Committee to implement a suggestion that there should be published in each issue of the C.F. Bulletin a list of products, classified under various headings according to season, which C.F. manufacturers would like chemists to display. The Committee recommended that the proposal should be adopted, and Mr. H. C. Condon and Dr. Brook were thanked for help to the Committee in this connexion.

A copy of a C.F. window transfer available for use by chemists was received and approved. The question of providing a C.F. window-display stand for use by chemists was considered, and it was proposed that quotations and sketches should be obtained. The Committee considered the best means of using the C.F. seal to direct public attention to the high standard of C.F. products, and it was recommended that the C.F. seal should be incorporated in the display stand, and also that all manufacturers should be asked to use the C.F. symbol in their advertisements. The recommendations were accepted.

### NORTH LONDON DINNER

MR. J. C. YOUNG (president, Pharmaceutical Society) was the guest of honour at a dinner preceding the annual meeting of the North Metropolitan Branch of the Society and the North London Pharmaceutical Association held recently. Mr. L. G. HAYWARD (a former chairman), proposed "The Guests," said that the Association had been honoured this year by having one of its members in the distinguished position of president of the Society. In his reply, Mr. YOUNG reviewed some of the current changes in pharmacy, with particular reference to the National Health Service. During the session the Branch had held, it was reported, a record number of meetings on subjects of scientific and general interest. Mr. L. G. MATTHEWS, in proposing the adoption of a new set of rules, said that the Association had progressed in many ways since its formation in 1912, and needed a revision of its original rules. The committee had received much guidance in drafting the rules from Dr. Dewar. Officers for the session 1916-17 were elected as follows:—*Chairman*, Mr. J. H. Spencer; *Vice-chairman*, Mr. L. C. Matthews; *Treasurer*, Mr. A. Leaversuch; *Secretary*, Mr. A. E. Fox. New members elected to the committee were Messrs. Davies, Martripp, and Po.

# PHARMACEUTICAL SOCIETY'S ANNUAL REPORT

The report of the Council of the Pharmaceutical Society of Great Britain for 1945 presented at the annual meeting of the Society on May 15. It dealt at length with the Society's many activities, and the following details.

Persons registered during the year as chemists or students numbered 551, an increase of fifty-nine. The total of persons whose names were on the Registers of Pharmaceutical Chemists and Chemists registered at the end of the year was an increase of eighty-nine. Of these 723 were registered as pharmaceutical chemists, an increase of fifteen. Nineteen persons were registered under reciprocity arrangements. Persons acting as superintendents of limited liability companies, partnerships under the Pharmacy Act, 1933, totalled 2,215, an increase of ninety-seven. Premises registered under Section 12 of the Pharmacy Act, 1933, and under Section I of the Pharmacy and Medicines Act, 1941, numbered 17,384, a decrease of seventy-four. Of the pharmacists serving in H.M. Forces, 4,468 (a decrease of three) applied for exemption from payment of annual registration fees.

## Examinations and Education

Examinations, including re-entries, for the whole part of the Intermediate examination, numbered 744; 307 candidates passed, figures for the Chemist and Druggist Qualifying examination were 641 and 32, and for the Pharmaceutical Chemist Qualifying examination ninety-two and fifty-six. One candidate was exempted in pharmaceuticals at the request of the Netherlands Government. Of forty-nine candidates entered for Diploma in Pharmaceutical Analysis, thirty-six passed. Candidates sat for the Scholarships examination. The examinations continued to be held on a decentralised basis.

The introduction during the year of the suspension of pharmacies as a condition of approval as training-places for students applied powers introduced into the regulations early in the war but not previously enforced. A revised scheme had been adopted for the research scholarships by the Society and two additional scholarships, entitled the Pharmaceutical Scholarships, had been established; the value of awards had been changed and the value of the scholarships increased. Each scholarship will hence-

forth have an annual value of £250, tenable for two years. Matters affecting Service personnel included a scheme to carry into effect the arrangement made in the previous year with schools of pharmacy to hold refresher courses for demobilised pharmacists; representations to the War Office for refresher courses for Service pharmacists to be taken before demobilisation, as part of Formation College programmes; concessions in respect of the examination regulations to ex-Service men and women, reducing the period of articulated pupilage to one year's experience either before or after the Qualifying examination, granting certain concessions to subjects of the Intermediate and Qualifying examinations, representations to the Government in favour of qualification preceding call-up in the event of compulsory military service being continued in peace-time; and co-operation with the United States Army authorities in an "observer" scheme.

## Work of the Society's College

Students admitted for the 1945-46 session showed a substantial increase. For the courses for the Qualifying examinations and Bachelor of Pharmacy degree the number was seventy-one, against forty-nine, and for research students sixteen against one. A feature was the high proportion of students taking the course for the Pharmaceutical Chemist Qualifying and degree examinations. A second evening refresher course for pharmacists had been held; an evening course for the Diploma in Biochemical Analysis had also been fully attended. Release of the examination hall, which had been used for office purposes during the war, had enabled the College to resume the use of this much needed space for instruction in physiology and aseptic technique. The grant made by the University of London had been increased from £800 to £4,000. Ten research papers had been published during the year.

## Organisation

The Council had decided to make no change in the arrangements for the 1945 annual meeting but to submit a report to the Branch Representatives' meeting on changes that might be made in future. As a result of views expressed on a proposed new by-law prohibiting canvassing by Council candidates the Council had decided to make a report on the matter to a Branch Representatives' meeting before proceeding

further. It had been decided to amend the by-law dealing with the co-optation of persons to fill casual vacancies.

### Legal Activities

The Society's inspectors had inspected 9,311 pharmacies; 4,995 drug stores and other shops were visited. The premises of 1,308 listed sellers of Part II poisons had been inspected on behalf of fifteen local authorities. One hundred and twenty-one reported breaches of the Pharmacy Acts had been considered, and proceedings instituted in forty-one cases of alleged infringements of the Pharmacy Acts. One case had been dismissed, seven dismissed under the Probation of Offenders Act, 1907, and penalties imposed in the remainder. The number of premises registered under Section 1 (i) (g) of the 1941 Act had continued to fall, owing to more co-operative societies forming separate companies to conduct their drug branches. Increase in the personal retention fee had not resulted in any decrease in the number of names on the Register; on the contrary, comparison with recent years showed that fewer names had been removed from the Register than was customary. The increased fee, however, had given rise to increased requests for special concessions, and the question was under consideration by the Council. The Council had decided to prepare a report to serve as the basis for further

legislation on the control of proprietary medicines. The Poisons Board had reconstituted to resume normal activity and recommendations to it for alterations in the Poisons List and Rules were in the course of preparation by the Council. A statement had been issued defining the attitude pharmacists should adopt towards the legal control of pethidine. The increased use of zinc phosphide as a pest destroyer had led the Council to make representations for its inclusion in the Poisons List.

### Central Pharmaceutical War Committee

In March the Committee had considered the deferments of nearly 5,000 pharmacists and dispensers employed in retail, hospital, and wholesale pharmacy. No second consideration had taken place as, in the interim, information had been received that persons born in 1914 or earlier would not be called to the Forces. In September, as a result of an application by the Committee, the Ministry of Labour and National Service had agreed to a quota of 100 Class B releases allocated to the Central Pharmaceutical War Committee against which applications could be made for the release of pharmacists as individual specialists. In November a further quota of 100 had been secured. By the end of the year the Committee had considered 294 such applications for pharmacists and dispensers.

## BIOLOGICALLY INERT TECHNICAL WHITE OILS

THE introduction of biologically inert lubricants into manufacturing processes is one outcome of a series of researches which have been carried out recently into technical white oils which are effective lubricants but biologically inert.

### Prevention of "Spinner's Cancer"

Probably the most important of these uses is the introduction of technical white oils as the main preventive measure against "spinners' cancer" a deadly disease which research has now shown to be attributed chiefly to constant contact with the lubricating oil used in the mule spinning-frames. Various types of anti-splash devices have been incorporated in the spinning frames, but these alone have proved insufficient to afford complete protection to the operative. The only real solution is the introduction of a lubricant that is biologically inactive. Years ago, after extensive experiments with various types of spindle oil from various fields of origin, it

was found that there was often a close correlation between the carcinogenic (cancer-producing power) of mineral oils and their refractivity constants.

As a result of this extensive research by C. C. Twort, M.D., and J. M. T. B.Sc., these workers were approached by interested parties and asked to give a specification for a mule spindle oil which, if adopted by the cotton trade, would eliminate the necessity of using the more dangerous types of mineral oil, such as shale oil and the most active petroleum oils. A specification suggested by these pioneers was set out in a report of the Manchester Committee on Cancer, 1934. Almost all mule-spindle oils used at that time contained varying amounts of cancer-producing substances, and in recommending the specification the authors' object was to prevent, if possible, the use of the worst types of oils without implying that any conforming to the specification was necessarily non-cancerous.

Further tests of mule spindle oils by the brothers Twort proved to them that the work was doing little to improve mule spindle oils from a biological standpoint, until they did, it could never be reasonably certain that workmen would be at risk of developing skin cancer when in contact with mule spindle oils. The safeguard was to experiment until an oil had been found by tests to be free from cancer-producing constituents. These experiments proved to them that oils of vegetable and animal origin, and colourless mineral oils of certain biological and chemical standards, conform to the conditions. Tests with an assortment of colourless mineral oils on the skin of mice over long periods of time were made without observing a single tumour. An additional proof of the local biological inertness of colourless mineral oils is the absence of physical characteristics before and after intra-peritoneal injection of the oils. Colour in an ordinary mule spindle oil of mineral origin is indicative of the presence of aromatics and olefines, and these are the constituents which are incriminated. Coloured mineral oils are not all equally active or of the same colour density, and cannot, therefore, be graded as to carcinogenicity by their colour, but the absence of colour is always a condition to be desired from the worker's health point of view. The two pioneers emphasised this as a result of their experiments, the mule-spindle oils of mineral origin that can justifiably be called "non-cancerous" and those devoid of colour and known to be made as "white oils."

#### Of Required Purity

Following on the recommendations and experiments carried out by the brothers Twort, the Manchester Oil Refinery has produced Puremor spindle oil and other white oils to the same standards. All the oils referred to are biologically inactive, and tests show an index fall of not more than two points. The index change is not important. Liquid paraffin and animal oils, after injection, usually show either a steady index or a few points rise, whereas bad oils may show index falls of anything up to 250 points. Puremor is free from substances causing dermatitis and is harmless. Spinning mules lubricated with it show a drop in "bolster" temperature of to 7° F. as compared with ordinary spindle oil.

During the war years, further research into the uses and protective properties of

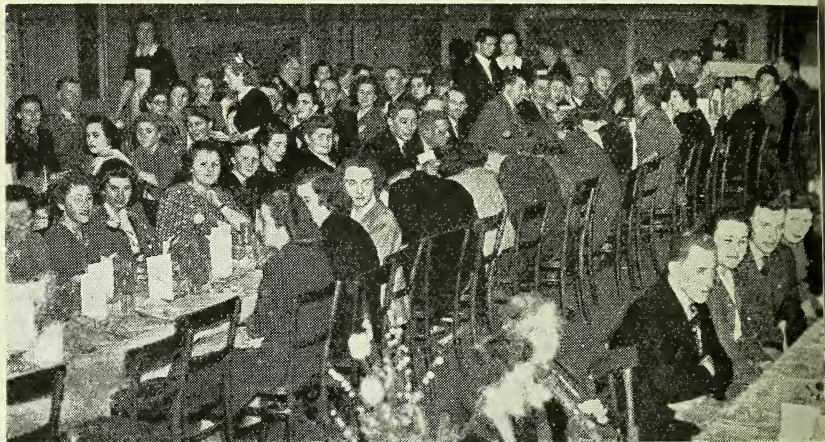
technical white oils has been made in regard to hospital practice. Recent work has shown that bedding in hospitals, etc., is responsible for the liberation of a high percentage of dangerous dust-borne organisms during the process of bed-making. Blankets may be grossly contaminated by droplets expelled by streptococcal and staphylococcal throat and nose carriers, and during bed-making these dried bacteria-containing droplets are raised into the air to produce infection by inhalation or by falling on susceptible tissues such as open wounds, etc. Experiments and research by M. Van den Ende, M.B., and his colleagues have evolved a treatment of bed-clothes with technical white oil which considerably reduces the number of air-borne bacteria and the consequent risk of infection. The method adopted was the introduction of technical white oil with an emulsifying agent (which allowed an oil-in-water emulsion) during the process of laundering. Carcinogenicity must obviously be excluded when an intimate contact between the oil and the patient's skin cannot be avoided, but technical white oil, being biologically inert, removes all fears on this point. The use of "spindle oil" to lay dust on floors and so diminish the number of bacteria in the air was discussed in a memorandum on the control of cross-infection in hospitals by the Medical Research Council (see *C. & D.*, 1944. II. 166). Experiments carried out by Van den Ende and colleagues, and subsequently by military hospitals, have shown that the use of "spindle oil" to lay the dust on floors has effectively lowered the rate of respiratory infections. The term "spindle oil," as pointed out by Van den Ende (*"Lancet"*), is used to cover a wide variety of mineral oils of varying degrees of refinement, ranging from the relatively crude carcinogenic lubricants employed in cotton mills to the highly refined, biologically inert technical white oils, and, in the interests of safety, he advises the use in hospitals of non-carcinogenic technical white oils which are biologically inert.

**U.S. Streptomycin Production.**—The *"Lancet"* states that eleven U.S. manufacturers have been making streptomycin for about twelve months. Output, at about 25 kilos (25,000 million units) monthly, is small compared with that of penicillin. About 60 per cent. is allotted to the U.S. Forces and Public Health Service, the remainder being used for clinical trials, under Dr. S. Keefer.

## CORK PHARMACEUTICAL REUNION

A LADY (Miss N. McCarthy, M.P.S.I.) was chosen to propose the principal toast at the second annual Cork Pharmaceutical Reunion dinner, held on May 2. MR. R. D. CLARKE (chairman of the local branch of the Pharmaceutical Society of Ireland) presided

MR. J. D. BLAIR (treasurer, Cork of the Society) proposed "The Irish Association" and MR. M. COSTELLOE, speaking, spoke of the advantages of having voice for all sections of the profession. MR. D. O'SHEA (Cork) proposed



CORK PHARMACISTS' REUNION.—A general impression of the dinner.

over a company of 160 which included Mr. J. K. Whelehan (president, Pharmaceutical Society of Ireland); Mr. P. Brady (vice-president); Mr. M. Costelloe (chairman, retail section, Irish Drug Association); Mr. P. C. Cahill (chairman, wholesale section); Dr. A. O'Rahilly (president, University College, Cork); Mr. M. V. Conlon (a member of the College governing body); and Mr. T. O'Gorman (employees' representative).

Miss MCCARTHY, in proposing the toast "The Pharmaceutical Society of Ireland," said that it was to the work of its Council that the Society owed the position of honour it occupied today. Another body which had done much to make the lot of the junior members of the profession an easier one was the Irish Drug Association. Cork pharmacists had reason to be proud of the work of their local employers' federation, and of their latest venture, the Guild of Pharmacy, under whose auspices the dinner was organised.

MR. WHELEHAN, responding, asked members to regard their headquarters in Dublin as their *alma mater*. The Society felt, Mr. Whelehan said, that a complete overhaul of its educational system was overdue.

Guests." DR. A. O'RAHILLY, in response, said that pharmacy required a five-university course in several countries of the Continent, and there was a standard of the profession which did not exist in Ireland. It might be that in Eire they may require



DUBLIN VISITORS WITH DR. O'RAHILLY AND OFFICERS.—Left to right, seated: Mr. J. K. Whelehan (president, Pharmaceutical Society of Ireland); Dr. A. O'Rahilly (president, University College, Cork); Standing Messrs. R. D. Clarke, R. Timoney, J. Fielding, M. Costelloe, B. Smith, P. C. Cahill and P. O'Gorman.

higher or specialised degrees in analytical chemistry, etc., and now that a professors' biochemistry had been established at University College they would be delighted if so requested, to do anything they could towards increasing the educational and other qualifications of the profession.

# MAIL QUESTIONS ON PUBLIC HEALTH BILL

Committee stage of the Public Bill, 1945, in the Dail Eireann many questions were raised on the manufacture and sale of medicines in Eire. Mr. WARD (Parliamentary Secretary to the Minister for Local Government and Health) moved amended subsections requiring the Minister to grant permits to medical practitioners to import, export, manufacture, sell or otherwise dispose of a restricted article; and to attach to the permit such conditions (if any) as he should think proper, at the same time prohibiting persons outside the scope of the subsection to do so, or to advertise a restricted article. The amendments, said Dr. Ward, were drafted as amendments and did not introduce any new principle into Section 89, which applied to a very limited category of restricted articles. He did not think that Deputies should ask him to particularise, inasmuch as there were some delicate aspects related to the articles contemplated. Certain instruments and appliances and other preparations might be used for a purpose other than the one for which they were obviously manufactured, and that purpose was often reasonable and sometimes bordered on the criminal. It was to give power to deal with these articles that the Section had been incorporated in the Bill, and clearly, the Section were to effect its purpose, the Minister must be the judge whether an article should be imported; it would be up to the medical practitioner concerned to inform the Minister so as to secure a licence.

## Use of Section

Mr. DE VALERA (son of Prime Minister Eamon de Valera) said he took it one of the problems the Parliamentary Secretary had in mind was the problem of contraceptives. The Section dealing with such things as contraceptives and things that might be restricted, or was it meant to cover the range of the excellence of medical articles? Mr. WARD: This Section is specifically included in the Bill to deal with the restricted articles that are manufactured and advertised and that purport to be used for medicinal purposes, including contraceptive purposes. It is not intended that the Section should have any wider application. There are sections dealing with proprietary medicines "and all that other wider category where the claims of these articles have curative or restorative or other valuable qualities will be the determining factor." The amendment was agreed.

Dr. Ward next moved an amendment defining a medical preparation as (a) "a substance which is sold under a proprietary designation and for use for the prevention or treatment of any human ailment, infirmity, injury, or defect," or (b) "any other prophylactic, diagnostic or therapeutic substance (not being a therapeutic substance within the meaning of the Therapeutic Substances Act, 1932) which is sold for use for the prevention or treatment of any human ailment, infirmity, injury or defect." The effect of the amendment, said Dr. Ward, would be to extend the expression "medical preparation" to cover any prophylactic or diagnostic or therapeutic substance sold for use for the prevention or treatment of any human ailment, infirmity, injury or defect. The amendment became necessary to remedy a defect in the operation of the Therapeutic Substances Act, 1932, particularly in regard to the manufacture and sale of penicillin ointment.

## Medical Practitioners' Freedom

Mr. MAJOR DE VALERA asked whether the Parliamentary Secretary would tell them that no fetters whatever would be put upon reputable moral medical practitioners in securing preparations for their own legitimate ends, or for that matter prescribing them. The reply was that Dr. Ward could foresee difficulties in adequately providing for the type of contingency that the Deputy had in mind. In general, medical practitioners were reputable, but occasionally they met a medical practitioner who was disreputable. It was not easy to provide facilities for the reputable without allowing the disreputable to abuse them. In such matters it would be necessary to establish an Advisory Council. Some of these remedies would have to be submitted to clinical trial before they could be excluded, if they were new remedies of which their practitioners had not much experience. On the other hand they would all be in agreement that there was quite an extensive category of "patent" medicines and proprietary preparations the sale of which constituted a fraud on the community at the present time. "I want to try and stop that," said Dr. Ward. "It is an effort that should have the support of every member in every Party."

Mr. MAJOR DE VALERA agreed that there must be control of preparations but straightaway the difficulty arose what authority was to

determine that a particular preparation was useless, and that it was a fraudulent means of extracting money from the public? Was this going to be decided by some officer in the Minister's Department, or some analyst, or would it be referred to some board?

DEPUTY P. COGAN said there was a grave danger that if the Minister was to take complete control over the sale and advertising of various medical preparations, there might be unfairness or injustice as between one firm and another. Listening to the Parliamentary Secretary he thought he discerned that there was a strong prejudice on the part of the medical profession against all outside medical preparations which were advertised. No doubt a large proportion of such preparations were of questionable value. It was possible, however, that there might be remedies of considerable value.

### Pharmacist Deputy's Views

DEPUTY F. LOUGHMAN (a member of the Council of the Pharmaceutical Society of Ireland): I am one of the pharmacists who would be greatly concerned with this particular section. When we first read it we had our doubt about it, but the Parliamentary Secretary very kindly met a deputation that was representative of the entire pharmaceutical trade, including both the academic and trade interests. We had a long discussion with him but the Parliamentary Secretary completely satisfied the deputation that what he was doing was just and reasonable. We dislike, of course, anything that puts a restriction on the articles which we can sell, and I think that when the Minister for Public Health embarks on protecting the people against fraud he is going a bit far. I agree that it is not right that people should be at liberty to advertise articles which are in themselves fraudulent and do not conform to the claims made for them, but I think it is a matter for another Department to consider whether a particular commodity is a fraud on the public or not.

DR. WARD replied that in this matter the Advisory Council would, of necessity, have to be drawn from men with the highest and most detailed knowledge of proprietary articles, and of their probable therapeutic effect. "We all realise that there will be difficulty in operating this section. We are breaking new ground in that regard in this country but it is not new ground in neighbouring countries. In the United States of America and in Canada such control has been instituted long since—and very rigid control. If it was found

to be necessary there where, perhaps people might not be as easily imposed on as Deputy Cogan has found them to be in this country, it should be necessary for The Advisory Council, said Dr. V. that would recommend to the Minister restrictions he ought to impose, and articles on which he should impose would have to be drawn from medical scientists, medical practitioners and medical consultants having the most intimate knowledge of the use and effects of articles.

DEPUTY M. DONNELLAN: The statement made by the Parliamentary Secretary these "quack" medicines cost millions a year is in my opinion most alarming. DR. WARD: Do not take that literally may not be accurate. When I say millions I am speaking in a figurative sense. I say very large sums.

DEPUTY DONNELLAN thought that the sters at fairs were doing more harm than the advertisements in the newspaper. The amendment was agreed.

### Samples to Accompany Applications

DR. WARD moved to delete the "relate" and substitute the words "and furnish samples of such preparations in a subsection dealing with applications for licences. It was necessary for the operation of the regulations, said Dr. V. that applicants for licences should be required to furnish samples of medical preparations to which their applications related.

DEPUTY P. BURKE: Is that not done to a great extent already under the Foods and Drugs Act?—DR. WARD: The Foods and Drugs Act does not deal with matters with which we are trying to deal here. Later he added that if they had not given themselves adequate powers to deal with the problem which they were trying to deal with they would come back to the House and ask for extended powers. "Deputy de Valera," Dr. V. went on, "has raised the question of samples for medical practitioners and pressed some anxiety as to the possible curtailment of the trial of new drugs by medical practitioners. That is not contemplated under this section. I think that we are well in advance of civilisation and heading fair to lead our neighbours in matters of public health administration. We do not intend to do anything, either by way of statute or administration, which would in any way limit the advance of medical science."

## OVERSEAS TRADE NEWS

**Exports from India Freed from Control.**—The Government of India has freed from control a number of important articles. The list includes surgical dressings.

**Philippine Copra Exports.**—Exports of copra from the Philippines in April of this year amounted to 24,179 long tons, of which 4,900 tons were shipped to Italy for UNRRA requirements. The balance was exported to the United States.

**Oil Production Estimates.**—Palestine production of olive oil is estimated to total 12,000 to 14,000 metric tons during the 1945-46 season. The Tunisian yield of olive oil for the same period is expected to reach 10,000 metric tons.

**Newfoundland Cod-liver Oil Exports.**—Exports of cod-liver oil from Newfoundland totaled 362,711 gallons during the twelve months ended October 31, 1945, compared with 16,377 gallons in the previous twelve months.

**French Soap Production.**—Output of soap in France declined slightly in March owing to an acute shortage of fats. Production of toilet soap amounted to 1,000 tons, compared with 1,100 tons in February, and production of household soap declined to 5,500 tons from 3,600 tons in February.

**South American Linseed Exports.**—The considerable surplus of Argentine linseed this year is estimated at about 800,000 tons. No exportation has been received as to whether 1,000 tons Uruguay was to export to the United States in April have been declined. Meanwhile, 13,000 tons have been fixed for shipment in May.

**Uruguay's Drug Imports.**—Imports into Uruguay of drugs and pharmaceutical raw materials during the first nine months of 1945 were valued at \$U.S. 1,142,000, compared with \$U.S. 846,000 in the corresponding period of 1944. The increased demand is attributed in part to the expansion in synthetic production of pharmaceutical corporations.

**Soap Experts for Ceylon.**—Two foreign experts are to be appointed by the Ceylon Government to assist the local soap and ink industries and to improve the quality of soap output. The industries, run by a number of small manufacturers, are themselves unable to afford expert advice; the Government has therefore decided to provide experts as a State contribution towards the development of these industries.

**U.S. Cottonseed Oil Production.**—A New York message states that production of cottonseed oil in the United States is expected to rise considerably during the latter part of this year when the new season's crop is brought in, owing to an estimated increase in cotton planting. This season's output is not expected to reach the 1945 figure of 3,700,000 tons which itself compares unfavorably with the 1934-43 average of 5,175,000 tons.

**U.S. Surplus Government Toluol Offered.**—The War Assets Administration in the United States has announced that 15,000,000 gallons of Government-owned surplus toluol have been offered in industrial channels at a price of 10 cents per gallon. This compares with the current market price for the material of 27 cents a gallon. Little difficulty in the quick disposal of the material is likely to be encountered at the low price at which it is offered.

**Canadian Cod-liver Oil Industry.**—The Canadian cod-liver oil industry has grown so rapidly in recent years that Canada is not only assured of supplying her own needs but is forwarding a considerable surplus to European countries through UNRRA, it was announced at the recent annual meeting of the Atlantic Cod Liver Producers' Association. Mr. H. Nadeau (chairman of the Association) recalled that in 1940 Canada faced a serious shortage of cod-liver oil as, prior to the German invasion, it obtained the oil from Norwegian sources. Mr. Nadeau said that a few Canadian business men, in collaboration with the Federal Oils and Fats Administrator and Atlantic Coast fishermen, created a new Canadian industry. During a war period of five years, six refineries were built at strategic points in the Gaspé Peninsula and Maritime Provinces. This new industry, born of necessity, was now of great national value to Canadians and had become an established asset not only for the supply of cod-liver oil for Canadian markets but also for devastated Europe. Furthermore, it had improved the standard of living of Canadian fishermen. During the past year Canada produced 528,574 gallons of cod-liver oil, of which 232,875 gallons were of high-grade medicinal quality, the balance being suitable for animal and poultry feeding purposes and industrial uses. Canada exported 223,763 gallons. Producers are planning to increase production this year.

## TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantity standard quality. Prices of crude drugs and essential oils vary according to brand or

### 28 Essex Street, W C.2, May 15

It is not known in trade circles to what extent the American loan, if granted, will affect the importation of drug trade articles, but it may be assumed that essential materials from United States sources will be in rather easier supply. Currency difficulties were mentioned in a notice dated May 9 sent out by the London Chamber of Commerce stating that the Director of Medical Supplies advises that BAYBERRY BARK, BLACK COHOSH, PITCH, SASSAFRAS BARK, GRINDELIA and HYDRASTIS are not now recognised as essential for medical purposes and that no further licences will be granted for the present. Little of general interest has occurred in the PHARMACEUTICAL CHEMICALS markets, where business is steady at stable prices. The shortage of supplies of GLYCERIN which is being experienced throughout the home trade is due, it is understood, to the effects of recent cuts in oils and fats, coupled with the constantly increasing demand from expanding industries.

### Crude Drugs

Conditions on the CRUDE DRUGS markets are practically unchanged from those reported a week ago. Export inquiry continues but business with home consumers remains slow. Prices of Cape ALOES are reported to be higher. Demand for ANTIMONY remains in excess of smelting capacity. Good-testing English BELLADONNA LEAVES are reported to be available on the spot. The position of Chinese CAMPHOR remains as outlined last week. Quiet conditions obtain for CHILLIES and other spice products. Rather easier conditions are noted for Portuguese DIGITALIS LEAVES. GUM ACACIA and Egyptian HENBANE remain at the rather higher prices quoted recently. Brazilian MENTHOL is in good demand for export with a rather higher price reported paid. NUTMEGS continue in short supply and prices are nominal. ORANGE PEEL from Spain is reported in course of landing. PAPAIN is dearer on the spot. A parcel of rough-round RHUBARB already arrived is reported to be of poor quality. A few price changes have occurred in WAXES.

Little of interest has occurred in the oils markets during the past week with prices of ESSENTIAL and FIXED OILS unchanged.

### Exchange Rates on London

Bank of England fixed rates at the closing on Wednesday morning were:—

Centre	Quoted	Ma
*Alexandria .. ..	Piastres to £	97
Brussels .. ..	Francs to £	176
Copenhagen .. ..	Kroner to £	19.32
Dutch West Indies..	Florins to £	7.58
Oslo .. ..	Kroner to £	19.95
Paris .. ..	Francs to £	479.7
Lisbon .. ..	Escudos to £	99.80
Montreal .. ..	Dollars to £	4.43
New York .. ..	Dollars to £	4.02
Stockholm .. ..	Kroner to £	16.85
Zurich .. ..	Francs to £	17.34

\* Free market rate

### U.S. Drug Market Report

New York, May 15

THE high prices which continue to be quoted for Far-East supplies of MENTHOL result in Brazil remaining the chief source of this commodity to the United States. No large-scale activity in this material reported here at present, though many consumers believe that the quotation for the South American product will advance further on any display of interest. GLYCERIN is in strong demand against limited supply of the material; synthetic resin manufacturers account for a large proportion of orders. Domestic output of MENTHOL will meet consumer requirements, as indicated here. Activity at present is on a small scale with little interest shown in recent imports of Mexican material. The major American producers have raised their prices for ETHYL ACETATE as a result of increased alcohol costs, while BENZYL ALCOHOL and ACETATE (fermentation processed types) advanced slightly. A large demand on BOTANICAL DRUG markets is reported over the past week; many items are virtually unobtainable. NAUBA WAX prices advanced to a new level with trade circles predicting a tighter market position ahead; European purchasers offered high prices for fuel. Brazilian supplies last year before O.P.A. removed the domestic ceilings. Much of the new crop is reported to be in. There are many reports to the effect that India has banned all exports of RHUBARB root while it is also thought that import regulations will be imposed on it, thus discouraging consumers from seeking supplies from abroad. All

is are reported strong while little  
A BARK is likely to be carried over  
the new season, according to present  
ions.

## Pharmaceutical Chemicals

ANILIDE.—Makers' prices are unchanged  
5d. per lb. for powder, and 2s. 6d. for

ETAMINE.—Makers quote at 150s. per lb.  
RIN.—The following are makers' current  
per lb. for the home market, in quantities  
of 1 lb.—1 cwt. (containers in brackets):  
1s. (1-lb.); 4s. (4-lb.); 3s. 11d. (7-lb.);  
1s. 11d. (14-lb.); 3s. 9½d. (28-lb.).

RIN TABLETS.—Makers quote bulk sup-  
plier 1,000 as follows: Under 5,000, 3s. 6d.;  
and over, 3s. 4d.; 10,000, 3s. 3d.;  
3s. 1d.; 50,000, 3s.; 100,000, 2s. 11d.;  
50,000, 2s. 10½d.; 500,000, 2s. 10d.; 1,000,000,

PINE.—Home market prices per oz. are:  
11d., 42s. 6d.; 4 oz., 42s.; 25 oz., 41s. 6d.  
TE, 34s.; 4 oz., 33s. 6d.; 25 oz., 33s.  
BROMIDE and METHYLNITRATE, 75s.

BIUM SULPHATE, B.P. (x-ray).—Prices  
quoted by makers, in 28-lb.—1 cwt. lots,  
one sales are (containers in brackets):  
1s. (1-lb.); 1s. 4½d. (4-lb.); 1s. 3½d.  
1s. 3d. (14-lb.); 1s. 2d. (28-lb.).  
are net, one month.

BUTH SALTS.—New prices per lb. for  
RATE, in quantities of 14 lb.—28 lb., are  
as follows (containers in brackets): 13s. 0½d.;  
12s. 11½d. (2-lb.); 12s. 11d. (4-lb.);  
12s. 9½d. (7-lb.); 12s. 9½d. (14-lb.). CITRATE,  
1 lb. above; SALICYLATE, 6d. per lb.  
SUBGALLATE, 4s. 3d. per lb. above;  
RATE, 1s. 2d. per lb. below the prices for  
ate.

Bx.—Ton lots are quoted as follows:  
P. quality, granulated, £38; crystal, £39;  
ow, £39 10s. Commercial grades, £8 per  
s. Packed in one-cwt. bags, delivered  
e paid in Great Britain, in one-ton lots.

C ACID.—Current rates per ton are as  
follows: B.P. quality, granulated, £60; crystal,  
owder, £62. Commercial grades, £8 per  
s. Packed in one-cwt. bags, delivered  
e paid in Great Britain, in one-ton lots  
wards.

IMIDES.—POTASSIUM, in quantities of  
1 is quoted at the following rates per lb.  
omers in brackets): 3s. 2½d. (1-lb.);  
(4-lb.); 3s. (7-lb.); 2s. 11½d. (14 lb.);  
d. (28-lb.). SODIUM, 1½d. per lb. less,  
MONIUM 1½d. per lb. more, than above  
Prices are net without engagement.

CINE.—Current rates per oz. are as  
follows: ALKALOID.—Under 25 oz., 1s. 4½d.;  
and under 100 oz., 1s. 4d.; 100 oz. and  
500 oz., 1s. 3½d. NITRATE and SULPHATE.  
Under 25 oz., 1s. 3½d.; 25 oz. and under 100  
3d.; 100 oz. and under 500 oz., 1s. 2½d.

CINE.—Schedule of reduced prices was  
last week (p. 606).

CHLORAL HYDRATE.—Steady; current prices  
are as follows: 1 cwt., 3s. 10d. per lb.; 56 lb.,  
4s.; 28 lb., 4s. 2d.; 14 lb., 4s. 6d.; 7 lb.,  
4s. 9d.; less, 5s. 3d.

CITRATES.—Prices per lb. current in the home  
market for POTASSIUM CITRATE, B.P., are as  
follows:—

Containers	1 lb.	4 lb.	7 lb.	14 lb.	28 lb.
Under 4 lb.	3 11½	—	—	—	—
4 lb.—7 lb.	3 10½	3 9	—	—	—
7 lb.—14 lb.	3 9½	3 8	3 7	—	—
14 lb.—28 lb.	3 8½	3 7	3 6	3 5½	—
28 lb.—112 lb.	3 7½	3 6	3 5	3 4½	3 3½

Prices net one month. 1 lb. and 4 lb., in bottles  
or tins; 7 lb. and 14 lb., in bottles, tins or  
jars; 28 lb., in tins. FERRI ET AMMON. CIT.,  
B.P., 2d. per lb. above; SODIUM, B.P., 3d.  
per lb. below; POWDER, 1d. per lb. extra.

CODEINE.—Current prices per oz. for small  
lots are as follows: BASE.—½ oz., 55s. 3d.;  
1 oz., 52s. 9d.; 2 oz., 51s. 3d.; 3 oz., 50s. 6d.;  
4 oz., 50s. 3d. HYDROCHLORIDE.—½ oz., 50s.;  
1 oz., 47s. 6d. 2 oz., 46s.; 3 oz., 45s. 3d.;  
4 oz., 45s. PHOSPHATE.—½ oz., 43s. 9d.; 1 oz.,  
41s. 3d.; 2 oz., 39s. 9d.; 3 oz., 39s.; 4 oz.,  
38s. 9d.

DIAMORPHINE.—Current rates per oz. for  
small quantities are as follows: BASE.—½ oz.,  
58s. 6d.; 1 oz., 56s.; 2 oz., 54s. 6d.; 3 oz.,  
53s. 9d.; 4 oz., 53s. 6d. HYDROCHLORIDE.—  
½ oz., 54s. 3d.; 1 oz., 51s. 9d.; 2 oz., 50s. 3d.;  
3 oz., 49s. 6d.; 4 oz., 49s. 3d.

ETHYLMORPHINE.—Small quantities are quo-  
ted per oz. by makers as follows: BASE.—  
½ oz., 61s. 6d.; 1 oz., 59s.; 2 oz., 57s. 6d.;  
3 oz., 56s. 9d.; 4 oz., 56s. 6d. HYDROCHLORIDE.  
—½ oz., 53s.; 1 oz., 50s. 6d.; 2 oz., 49s.; 3 oz.,  
48s. 3d.; 4 oz., 48s.

GLUCOSE.—Powdered monohydrate for the  
home trade is quoted as follows: 14 lb.—28 lb.,  
in 14-lb. lots, 11½d. per lb.; 28 lb.—112 lb., in  
14-lb. lots, 11½d.; in 28-lb. lots, 10½d.

HOMATROPINE.—Makers' prices per oz. are  
as follows (prices per gram in brackets):  
ALKALOID.—1 oz., 97s. 6d.; 4 oz., 92s. 6d.;  
16 oz., 87s. 6d. (4s.) HYDROCHLORIDE, HYDRO-  
BROMIDE and SULPHATE.—1 oz., 75s.; 4 oz.,  
70s.; 16 oz., 65s. (3s. 2d.).

IODINE PREPARATIONS.—Current home quo-  
tations are: POTASSIUM IODIDE, B.P.—112 lb.,  
9s. 3d.; 28 lb., 9s. 9d.; 14 lb., 10s. 3d.; 7 lb.,  
11s. 9½d.; 4 lb., 12s. 3½d.; smaller quantities,  
12s. 9d. per lb. SODIUM IODIDE, B.P.—28 lb.,  
10s. 2d.; 14 lb., 10s. 8d.; 7 lb., 12s. 5½d.; 4 lb.,  
13s. 1½d.; smaller quantities, 13s. 11d. IODO-  
FORM, B.P.—28 lb., 13s. 4d.; 14 lb., 13s. 10d.;  
7 lb., 16s. 0½d.; 4 lb., 16s. 10½d.; smaller quan-  
tities, 17s. 8d. IODOFORM CRYSTALS.—2s. per  
lb. above powder prices. IODINE RESUBLIMED,  
B.P.—112 lb., 10s. 8d.; 28 lb., 11s. 2d.;  
14 lb., 11s. 8d.; 7 lb., 13s. 5½d.; 4 lb., 14s. 1½d.;  
smaller quantities, 14s. 10d.

LACTATES.—Prices are as follows: LACTIC  
ACID.—Six-winchester lots, 3s. per lb.; smaller

quantities, 3s. 1d. **CALCIUM LACTATE**.—Small quantities, 2s. 5d. per lb. **CALCIUM SODIUM LACTATE**.—Powder, small lots, 3s. 7d. per lb.; 14 lb., 3s. 4d.; 28 lb., 3s. 2d.; granular, one penny per lb. extra.

**Liq. BISMUTH. ET AMMON. CIT., B.P.C.**—Price has been advanced by 2d. per lb. in sympathy with the recent rise in bismuth metal. New rates per lb. for the home market are as follows:—

No. of containers	1-lb. bottles	Corbyns	Winchester qts.
	s. d.	s. d.	s. d.
1 or 2	2 0	1 11	1 8
2 to 5	1 11	1 10	1 7
6 to 11	1 10	1 9	1 5½
12 to 35	1 8½	1 7½	1 4
36	1 7	1 6	1 3½

**MAGNESIUM CARBONATE, HEAVY**.—Home market prices per lb., in lots of 28 lb.—1 cwt., are as follows (containers in brackets): 1s. 7d. (1-lb.); 1s. 5½d. (4-lb.); 1s. 4½d. (7-lb.); 1s. 4d. (14-lb.); 1s. 3d. (28-lb.). Prices net, one month.

**MAGNESIUM CARBONATE, LIGHT**.—Prices per lb. for the home market, in quantities of 28 lb.—1 cwt., are as follows (containers in brackets): 1s. 4d. (1-lb.); 1s. 2½d. (4-lb.); 1s. 1½d. (7-lb.); 1s. 1d. (14-lb.); 1s. (28-lb.).

**MAGNESIUM TRISILICATE**.—Prices per lb., current in the home market, in quantities of 28 lb.—1 cwt., are as follows (containers in brackets): 3s. 9½d. (1-lb.); 3s. 8d. (4-lb.); 3s. 7d. (7-lb.); 3s. 6½d. (14-lb.); 3s. 5½d. (28-lb.).

**MANDELATES**.—Makers' quotations are unchanged. **SODIUM AND CALCIUM**.—4 oz., 8 oz., and 1 lb., 22s. per lb.; 4 lb., 20s. 3d.; 7 lb., 18s. 6d.; 14 lb. (in 7-lb. packages), 16s. 9d.; 28 lb. (in 7-lb. packages), 15s. per lb., net. **AMMONIUM** (50 per cent. solution).—4 oz., 8 oz., and 1 lb., 11s. 9d. per lb.; 4 lb., 10s. 9½d.; 7 lb., 9s. 10d.; 14 lb. (in 7-lb. packages), 8s. 11½d.; 28 lb. (in 7-lb. packages), 7s. 11d. per lb., net. Packages are charged extra and should be returned promptly.

**MANDELIC ACID**.—In good demand. Current quotations are as follows: 1 lb., 22s. per lb.; 4 lb., 20s. 3d.; 7 lb., 18s. 6d.; 14 lb., 16s. 9d.; 28 lb., 15s.

**METHYL SALICYLATE**.—In good supply. Small lots are quoted at 2s. 6d. per lb.; winchesters at 2s. 1½d.; 56 lb., in demijohns, 2s.; 1 cwt., in demijohns or carboys, 1s. 11½d.; 5 cwt., 1s. 11d. All prices net.

**PHENOLPHTHALEIN**.—Unchanged at the following prices: Less than 7 lb., 4s. 8d. per lb.; 7 lb., 4s. 7d.; 14 lb., 4s. 6d.; 28 lb., 4s. 5d.; 1 cwt., 4s. 4d.

**POTASSIUM PERMANGANATE**.—Current rates are as follows: B.P. (in 1-cwt. drums), 1 cwt. and over, 1s. 8½d. per lb.; 3 cwt. and over, 1s. 8d. **TECHNICAL** (in 1-cwt. drums), 1 cwt. and over, 166s. 3d. per cwt.; 3 cwt. and over, 161s. 9d.; 5 cwt. and over, 159s. 3d.; 1 ton and over, 156s. 9d.; 4 tons and over, 154s. 3d.

**TECHNICAL** (in 5-cwt. drums), 5 cwt. and over, 156s. 9d. per cwt.; 1 ton and over, 154s. 3d. and 4 tons and over, 152s. Terms net, paid to nearest station, containers extra returnable.

**MERCURY SALTS**.—The following prices per lb. contained in the Controcury (No. 11) Order, 1945 (S. R. & Co. No. 1229):—

	7-28 lb.	28 lb.-1 cwt.	1 cwt.-2 cwt.
	s. d.	s. d.	s. d.
Bichloride, powder	8 11	8 7	8 8
Bichloride (industrial)	8 11	8 7	8 8
Bichloride, lump	9 6	9 2	9 9
Ammonium chloride, powder	10 6	10 2	10 10
Ammonium chloride, lump	10 4	10 0	10 9
Chloride (mercurous)	10 7	10 3	10 10
Oxide, red crystalline, B.P.	12 0	11 8	11 11
Oxide, red levigated, B.P.	11 6	11 2	11 11
Oxide, red technical	All quantities		
Oxide, yellow levigated, B.P.	11 4	11 0	11 10
Oxide, yellow technical	All quantities		

5 cwt. and over: Bichloride lump, ammonium chloride powder, 9s. 6d.; ium chloride lump, 9s. 4d.; oxide red cry B.P., 11s. 4d.

**PULV. BISMUTH. CO., N.F.**—Price has advanced by 3d. per lb. following the rise in bismuth metal. New rates per lb. home market are as follows:—

Quantity	In containers of			
	1 lb.	2 lb.	4 lb.	7 lb.
	s. d.	s. d.	s. d.	s. d.
1 lb.—4 lb.	3 1	3 0	—	—
4 lb.—7 lb.	3 0	2 11	2 10½	—
7 lb.—14 lb.	2 11	2 10	2 9½	2 8½
14 lb.—28 lb.	2 10	2 9	2 8½	2 7½
28 lb.—112 lb.	2 9	2 8	2 7½	2 6½

28 lb., 2s. 5d. Net one month.

**TERPINEOL**.—Pure medicinal quality may be obtained at from 3s. 3d. to 4s. 1d. according to quantity.

**THEOBROMINE**.—Schedule of reduced prices was given last week (p. 606).

## Crude Drugs

**ALOES**.—Prices are higher. Cape aloes would be worth 140s. per cwt.; forward is quoted 115s., c.i.f.

**ANTIMONY**.—Demand remains in excess of smelting capacity. Prices are unchanged. Minimum 99.6 per cent. regulus, £113 per ton; minimum 99 per cent., £125; 100 per cent. crude, for the home trade, £105 per ton delivered.

**ARECA NUTS**.—Dealers continue to spot supplies at 75s. per cwt.; ship 55s., c.i.f.

**BALSAMS**.—Firm conditions obtain in Canada, spot price of which remains at 100s. c.i.f.

lb.; *Peru*, steady at 8s. 3d.; *Tolu*—*Ciba* are unobtainable.

*POONNA*.—Low-testing Indian root is at spot at 2s. 9d. per lb. Some good-English leaves (0.449 per cent.) are available at 5s. 3d. to 5s. 6d. per lb.

*PH*.—High-grade metal is unchanged at 1 lb., in minimum 5-cwt. lots.

*LEAVES*.—In small compass on the spot at 2s. per lb.

*OR*.—Chinese powder afloat is quoted at 12s. 6d. to 13s. per lb., duty paid.

*MOMS*.—Scarce and firm. Aleppy at 8s. 6d. per lb.; Aleppy greens, Mangalore heavy, 7s.

*MOOGRA*.—*Hydnocarpus* is unchanged at spot at 2s. per lb., in tins in cases.

*ES*.—Quiet conditions obtain. Mom-sa, sellers at 145s. per cwt.; shipment, 130s., c.i.f., buyers' licence.

*ION*.—Chips are obtainable in small spot at 2s. 2d. per lb., but quills are available.

*CLO*.—Quiet and unchanged. Zanzibar, spot, 1s. 1d. per lb., sellers; shipment, 9½d., c.i.f., buyers' licence.

*REAL*.—Spot quotations for silvers and lack the same at 5s. 6d. per lb.

*BUTTER*.—Price is fixed at 1s. 5½d. per lb. ex factory or warehouse, except under cenc.

*YNTH*.—Spot, fair white pulp, 2s. 6d. per lb.

*LIS LEAVES*.—Portuguese is quoted on spot at 130s. to 140s. per cwt., but some small is reported at under these figures. 2s. 6d. per lb.

*CACIA*.—Kordofan cleaned sorts, spot, at 75s. per cwt.; bleached, 145s.; cleaned, 42s. 6d.

*NE*.—Egyptian (*muticus*) is quoted on spot at 25s. per cwt.; Indian, 250s.

*KA*.—No supplies are available on spot. nominal at 3s. per lb.

*KA GUM*.—Available Indian No. 1 can be obtained on spot at 200s. per cwt.

*NUTS*.—Spot prices unchanged: busi-quiet. African quarters, 8d. per lb.; halves, 6d.; Jamaican washed halves,

*PRICE ROOT*.—Natural Anatolian, 90s. per cwt. spot.

*HOL*.—Export demand continues good, 1s. per lb. reported paid. Spot is 32s. 6d. per lb., duty paid.

*TRY*.—Prices are controlled by the Order of Mercury (No. 11) Order, 1945 (S.R. O. 145, No. 1129) (C. & D., October 13, 1945, 388).

*EGS*.—Supplies continue short. Quota-ge: West Indian 80's, 4s. 6d. per lb.; assorted, 4s. 3d.; wormy and broken, ex. store.

*NUX VOMICA*.—Cochin, spot, 45s. per cwt.; shipment, 39s. 6d., c.i.f.; Mangalore, spot, 37s. 6d.

*ORANGE PEEL*.—Spanish quarters, in course of landing, 2s. 9d. per lb.

*PAPAIN*.—East African is rather dearer on spot at 18s. 6d. to 19s. per lb.

*PIMENTO*.—Sellers on spot at 1s. 3d. per lb.; shipment, 122s. 6d. per cwt., c.i.f., buyers' licence.

*QUILLAIA BARK*.—Supplies are limited; prices are: natural, 110s. per cwt.; cut, 130s., ex warehouse.

*RHUBARB*.—Orders sent out for Shensi at 12s. 6d. per lb. brought back no replies. One lot of rough-round already arrived is reported to be of poor quality.

*SARSAPARILLA*.—Native Jamaican, spot, 3s. 9d. per lb.

*SEEDS*.—Current prices are as follows: *CORIANDER*.—Spot, Indian, 135s. per cwt.; Morocco, 130s. *CUMIN*.—Spot, Indian, 200s. *DILL*.—Spot, Indian, 85s. *FENUGREEK*.—Spot, Indian, 80s. *FENNEL*.—Spot, Indian, 175s.; Persian, 200s. *CELERY*.—Spot, Indian, 175s.

*TURMERIC*.—Madras finger quoted at 95s. per cwt., ex store Liverpool. For export only, 85s.

*WAXES*.—The higher rates for *CARNAUBA* noted recently are maintained. Fatty grey, spot, sellers at 1,050s. per cwt.; chalky, 1,030s.; prime yellow, 1,200s.; shipment, fatty grey, 950s.; prime yellow, 1,075s. *BEES'*.—Quoted on the market as follows: Dar-es-Salaam, spot, 320s. per cwt.; afloat and May-June shipment, 305s., c.i.f.; Benguela, spot in bond, 285s.; May-June shipment, 275s., c.i.f.; Abyssinian, May-June shipment, 280s., c.i.f. *OURICURI*.—Spot, nominal; to arrive, 620s. per cwt., c.i.f., 7 per cent. basis. *CANDELILLA*.—Spot, nominal; to arrive, May-June dispatch, 505s. per cwt., landed terms.

## Essential and Expressed Oils

*CASTOR*.—Official quotation for bulk supplies of "firsts" is £82 per ton, and that for "seconds," £80, both naked ex works.

*CLOVE*.—As noted last week, English-distilled bud oil is easier at approximately 12s. per lb.

*COCONUT*.—The following are the fixed prices for bulk quantities: Crude, £49 per ton; refined deodorised, £49; refined hardened deodorised, £53.

*COTTONSEED*.—Official quotations are as follows: Crude, £52 2s. 6d. per ton; washed, £55 5s.; refined edible, £57; refined deodorised, £58, naked ex works.

*GROUNDNUT*.—Bulk supplies are officially quoted as follows: Refined deodorised, hardened to 40°, £62 per ton; refined deodorised, hardened to 50°-52°, £63.

*LINSEED*.—Crude, £63 per ton for bulk supplies, naked ex works.

## TRADE MARKS

(From "The Trade Marks Journal,"  
April 24)

- "ULMEAL"; for pharmaceutical farinaceous preparations (5). By Potter & Clarke, Ltd., 60-64 Artillery Lane, London, E.1. B638,495.
- "WIMSOL KEIGHLEY" round monogram "W L" (monogram disclaimed) on circular striped device; for disinfectant and antiseptic preparations (5). By Wimsol, Ltd., Atlas Mills, Grace Street, Keighley, Yorks. 638,910 (Associated).
- "NLTIC"; for combs and cosmetic utensils (21). By N. L. T. Industries, Ltd., Woodfall Road, London, N.4. 636,449.
- "VALIMENT"; for pharmaceutical substances (5). By Chemi-Synthetics, Ltd., Cubitt Town Wharf, Saundersness Road, London, E.14. 638,927.
- "NU-LAN"; for soap boxes (21). By Newton, Lansdowne & Co., Ltd., Brook House, 2 Torrington Place, London, W.C.1. 637,706.

(From "The Trade Marks Journal," May 1)

- "PERSONALITY"; for soap (3). By Personality Beauty Products, Ltd., Derby Road, Ashby-de-la-Zouch, Leics. B634,381 (Associated).
- "STREP"; for degreasing preparations (3). By The Solvents Research Co., Ltd., 102-04 Vauxhall Road, Liverpool, 3. 636,036.
- "RAUCOURT"; for toilet preparations (non-medicated) perfumes and perfumed soap (3). By Societe D'Etudes et D'Expansion de la Parfumerie de Luxe, c/o Arthur W. Parfitt, Stafford House, Norfolk Street, London, W.C.2. B637,718.
- "BARKO"; for soap for animals (3). By P. F. McAuliffe, c/o McKenna & Co., 14 Waterloo Place, Pall Mall, London, S.W.1. 637,984.
- "BRISTOW'S JEAUNESSE" ("Bristow's" disclaimed); for toilet soap (3). By T. F. Bristow & Co., Ltd., Edgware Road, Colindale, Hendon, London, N.W.9. B638,026 (Associated).
- "RADNAI"; for toilet articles (not medicated), cosmetic preparations, perfumery and soaps (3). By Radnai, Inc., c/o Frank B. Dehn & Co., Kingsway House, 103 Kingsway, London, W.C.2. 638,750.
- "WILD OATS"; for creams, face powder, toilet water, all being non-medicated toilet preparations, cosmetic preparations and perfumes (3). By Erik Friis-Hansen, c/o J. E. Evans-Jackson & Co., 49 Albert Hall Mansions, Kensington Gore, London, S.W.7. B638,776.
- "SERUTAN"; for vegetable laxative preparations (5). By Serutan Co., c/o Stevens, Langner, Parry & Rollinson, 5-9 Quality Court, Chancery Lane, London, W.C.2. 636,239.
- "IBCO HOME TEAM" with device of house and circle; for pharmaceutical preparations and substances, sanitary substances, antiseptics, disinfectants, insecticides, weed-killers and vermin destroyers (5). By A. Ibbetson & Co., Ibc-co Works, Great North Road, Stevenage, Herts. 637,409 (Associated).

## CORRESPONDENCE

### Science Papers for the Conference

SIR,—Meetings of the Science Session of the British Pharmaceutical Conference will be held this year in London on June 16 and 17. Authors who desire to submit papers for reading and discussion are invited to send their manuscripts without delay, and, in any case, not later than June 14. The papers submitted should relate to original investigations in pharmaceutical sciences allied to pharmacy, and should be forwarded to the Honorary General Secretaries at 17 Bloomsbury Square, London, W.C.1.—Yours faithfully,

G. R. BOYES,  
H. TREVES BROWN  
*Secretaries*

London, W.C.1.

## COMING EVENTS

Notices for inclusion under this heading should be sent in time to reach the Editor not later than the Wednesday morning of the week of insertion.

### Monday, May 20

NATIONAL CHAMBER OF TRADE, the Scarborough, at 10.30 a.m. Annual meeting and opening of three-day conference. At 7 p.m. Presidential address by Sir Victor Womersley (a former Minister of Pensions).

### Wednesday, May 22

HERTFORD AND EAST HERTS BRANCH, NATIONAL PHARMACEUTICAL UNION, Welcome (opposite the station), Broxbourne, Herts. 7.30 p.m. Inaugural meeting. Mr. Kemp (local organisations officer) on National Health Service and Other Matters.

SCARBOROUGH BRANCH, PHARMACEUTICAL SOCIETY, Scarborough Hospital, at 7.30 p.m. Miss J. E. Rogers, M.P.S., penicillin (part 2).

INSTITUTE OF CHEMISTS-OPTICIANS, 17 Bloomsbury Square, London, W.C.1, at 7.30 p.m. Mr. Clifford Hall on "The Prescribing and Fitting of Contact Lenses." Colour film.

### Thursday, May 23

SCOTTISH SECTION, SOCIETY OF PUBLIC ANALYSTS, North British Station Hotel, Edinburgh, at 2.30 p.m. Papers to be read: "Spectroscopic Analysis." Tea and drinks.

### Friday, May 24

SOUTHAMPTON SECTION, CHEMICAL SOCIETY, University College, Southampton, at 5 p.m. Professor W. Wardlaw on "Structural Inorganic Chemistry."

### Sunday, May 26

MANCHESTER PHARMACEUTICAL ASSOCIATION, Ramble to New Mills, Kettleshulme, St. Helens. Meet at London Road station, 9.40 a.m. Book New Mills return.

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**References**

*Chemistry and Industry*, 1944, 67.  
*Chemistry and Industry*, 1944, 127.  
*Quarterly Journal of Pharmacy and Pharmacology*, 1943, 232.  
*Pharmaceutical Journal*, 1943, 58.  
*The American Perfumer*, 1943, 163.

*Journal of the Society of Chemical Industry*, 1944, 107.  
*Journal of the Society of Chemical Industry*, 1944, 8.  
*Oil and Soap*, 1942, 144.  
*Oil and Soap*, 1945, 81.  
*Nature*, 1944, 824.

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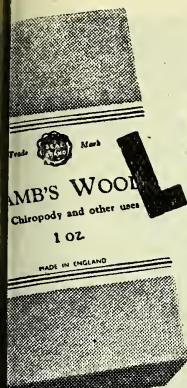
The product of paper specialists of world renown and made from the finest thin, absorbent tissue paper now permitted. The interleaved sheets are SPECIALLY PROCESSED to give a touch of softness but super soft finish.

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TOILET PAPER

SATINO is one of the famous FLORENCE brand of domestic paper products made by **FREDERICK BROTHERS PAPER MILLS**  
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## FOR CHIROPODY AND OTHER USES

*Attractively packed in orange carton with transparent paper wrapping.*

$\frac{1}{2}$ oz.	-	3/9 doz.	2 oz.	-	-	12/- doz.
1 oz.	-	6/9 doz.	4 oz.	-	-	22/6 doz.

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### CORN PLASTERS

*in boxes of twelve*

4/3 doz. boxes
4/9 doz. boxes

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*in boxes of six*

Thin	5/6 doz. boxes
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*for Health's Sake*

## LUNA

*The Modern Sanitary*

## TOWELS

*Chemists, Stores and Drapers*

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*Quality Guaranteed.*

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A non-slipping, comfortable, antiseptic wound dressing. Easily applied. Retail, 6d. and 1s. Also supplied 1 yd. packs in various widths. Usual Trade Terms.



In view of restricted supplies of rubber, strictly rationed quantities only of all lines will be allocated to regular customers

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offer you all kinds of  
Essential Oils & Lavender Oils for the  
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Available from all Wholesale Chemists

2d. PACK CONSISTING OF 3 ASSORTED SIZES

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MONTH BY MONTH 'ELTOBAND'  
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'ELTO' (Chemists) Products Ltd.  
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Perfect Reliability

**NON CHAFING  
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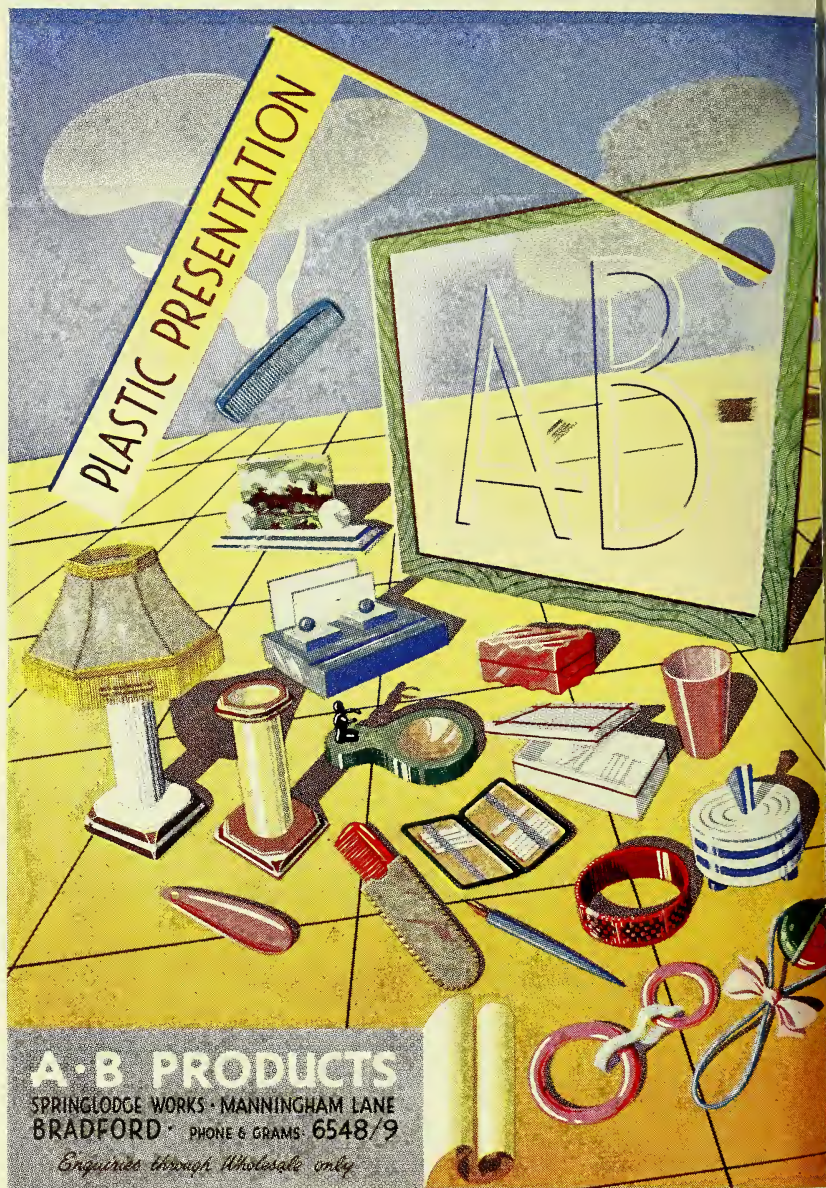
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People are  
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... but we  
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of this quick selling  
cleaning and disinfectant  
are held owing to a shortage of  
bottles.

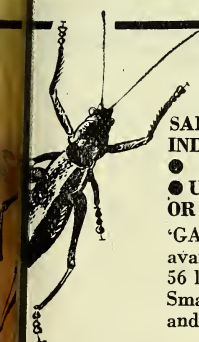


limited deliveries at present . . .  
we look forward to ample  
supplies in the future

**DOMESTOS LIMITED**  
Bottle Works, Newcastle-on-Tyne

**CRICKET FESTIVALS**

we do **NOT** like



**SAFE TO USE • EFFECTIVE  
INDOORS AND IN THE OPEN  
• PERSISTENT IN ACTION  
• UNAFFECTED BY SUNLIGHT  
OR MOISTURE.**

'GAMMEXANE' DUST D.034 is  
available in limited quantities in  
56 lb. and 1 cwt. packages.  
Smaller quantities are repacked  
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### THE WONDER WOOL

★ *Cleans as it Polishes*

THE MODERN METHOD OF CLEANING  
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USED BY ALL LEADING SILVERSMITHS

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**Liquinure** is the scientifically  
balanced concentrated liquid  
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Be sure to have a good stock  
for spring and summer when  
our national advertising will be  
at the height. Packed in 2/6  
bottles (General and Tomato).  
Also FLOWER SPECIAL in 3/-  
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*Obtainable from your wholesaler.*

**LIQUINURE SALES**  
27 Burnt Oak Broadway, Edgware, Mix.



CRICKETS breed prolifically in  
the early summer on refuse tips  
and waste ground, and may spread  
rapidly to neighbouring property.  
USE 'GAMMEXANE' DUST  
D.034 NOW, AND ENSURE  
FREEDOM FROM CRICKETS  
FOR THE WHOLE SEASON.  
The breeding of FLIES will also  
be prevented.



'Gammexane' is the name given to the gamma isomer of benzene hexachloride.

**IMPERIAL CHEMICAL INDUSTRIES LTD.**  
NOBEL HOUSE - - - LONDON, S.W.1

G.7

*Little-known Limericks—No. 25*

A chemist in business at  
Kew  
Said : "The moment Brand's  
quota is due,  
It's here on the nail.  
If it ever should fail  
T'would be the sensation  
of Kew !"

In the present state of restricted supplies, Brand's policy is quite clear. They aim to play fair with retailers, and all supplies are allocated on a strict quota basis. Once you are on Brand's rota, you can be sure that you will get absolutely fair treatment.

**BRAND & CO. LTD.**  
LONDON

**NIPITS**  
PASTILLES  
**FOR**  
**VOICE, THROAT**  
**AND CHEST**  
Made by  
TEASDALE & CO. LTD. CARLISLE

**SUNRAY** RED  
MALT WINE Cocktails

A quick line for Wine Licence holders—something and pr  
—a health wine too, in intriguing flavour new  
Trade prices 123/- and 144/- doz. (Adv sed 5%  
prices to public 12/6d. and 14/6d. bottle  
Proof Spirit. M.O.F. approved labels.)  
**RICHARD DAVIS LTD.**  
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**RAZOR BLADE**

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Sole Makers . . .  
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Containers of Metal,  
Glass, Aluminium  
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of High Class machinery for fine chemical  
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*When packing or  
purchasing Toilet or  
Medicinal Preparations  
see the bottle is sealed  
in the best way -  
i.e. by a cork the  
natural closure.*



RETAIL PRICES

**SMALL** 2/6 incl. tax.  
**MEDIUM** 4/7 incl. tax.



says Mr VITALITY

To those Chemists only who are not serviced  
by a member of our reduced representative  
staff. If you have not had a quota for the last  
six months.—

**GLUCOSE MEDICATIONS.**—Datum year purchasers  
please apply within seven days for quota of avail-  
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balance must be distributed in smaller quantities  
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invited to make application forthwith.

**VITA GLUCOSE. P.A.T.A.**—By arrangement, there  
are sufficient supplies for all Diabetics on Insulin  
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**GLUCOSE CONFECTIONS.**—(1) Available for URGENT  
MEDICAL CASES against individual prescriptions.  
(2) Normal sales (now De-zoned) against transfer  
forms only *pro rata* to purchases made in the 16  
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**VITALISED STOMACH POWDER. P.A.T.A.**—Each  
teaspoonful contains, in addition to the enzymes  
Diastase and Papain, 35 international units of  
Vitamin B1.

\* M.O.F. regulation



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**SWELL SALES FROM STRENGTH TO STRENGTH**

order from your wholesaler on terms 33 $\frac{1}{3}$ rd.

**LESS 2 $\frac{1}{2}$ % CASH DISCOUNT 30 DAYS**

*Special Terms*

FOR DISPLAYING ATTRACTIVE WINDOW  
TRANSFER AND OUTER **ADDITIONAL 7 $\frac{1}{2}$ %**  
on all orders received during 3 months  
display period.

Distributors : **Messrs. SPLENDOR LTD.**  
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Manufacturers : **GRANTO LABORATORIES LTD**  
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**LARGE** as long as stocks last  
7/6 including tax.

**SWEET-BREATHS**

ANTISEPTIC MINT FLAVOUR

**AN AMAZING SUCCESS**

- ★ ACTUALLY DESTROY BREATH ODOURS
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- ★ A STRIKING PACK THAT ATTRACTS THE EYE
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RETAIL **9<sup>d</sup>**6 doz DISPLAY OUTER 35/- Incl. P.T.—SELLS AT 54/-  
SPECIAL PACKING & TERMS FOR WHOLESALERS**Stannards for**BRIGHTER DISPLAYS — BIGGER SALES  
**STANNARDS Manufacturing Chemists**  
TADWORTH, SURREY**AVAILABLE NOW****1/5 SIZE**

(in addition to the 3/4 size)

Your Wholesaler Has Supplied

**P.A.T.A.****Silf**

TRADE PRICE 11/3 Per Doz.

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DEMANDS THIS SSilf is supported by Regular  
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THE SILF CO. LTD., 39, SHAFTESBURY AVE., LON

**Do You know  
THE LITTLE CHAP?**A remarkable Scientific Formula  
produces this amazing NEW Cleaner**Today's Best Cleaner is  
Today's Best Secret**Medium and large  
sizes retailing at**1/- and 1/6**Terms on  
application

"LITTLE CHAP" needs little introduction to your customers. They know this amazing new product as the stain remover that knocks spots off every other cleaner. Point out how it banishes stains and smears of grease, oil, paint, tar, varnish, a trace, without discoloration or harm to delicate fabrics. Mention that it's non-inflammable, and non-evaporating, so more economical. Then see how "LITTLE CHAP" adds to your goodwill as well as good profits!

**THE  
LITTLE CHAP  
STAIN REMOVER**

Made by  
**LONDON PHARMACEUTICAL LABORATORIES LTD.**  
24 THORNSETT ROAD, LONDON, S.W.18

**Dr. J. Collis Browne's Chlorodyne**  
and  
**The Pharmacy and Poisons Act, 1933**

# Dr. J. Collis Browne's CHLORODYNE

**SALE RESTRICTED TO REGISTERED CHEMISTS**

**PURCHASER'S SIGNATURE NOT REQUIRED**



**Sole Proprietors:**

**J. T. DAVENPORT LTD.**  
UNION ST., LONDON, S.E.1

**P.A.T.A.**



**and LIVELY  
sales too**

With OKASA the old tonic preparation. Backed by regular demand is ever increasing. Attractive show now available to all chemists on special bonus terms.

Retails from 5/6d.

**OKASA**  
**TABLETS**

**SILVER  
FOR MEN  
GOLD  
FOR WOMEN**

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41, ADAM ST. LONDON W.C.2

*Always Sells!*

**THE LIVE LINE  
WITHOUT A  
DEAD SEASON-**

**Cuticura  
OINTMENT**

223

- Cuticura Ointment — and equally popular Cuticura Soap, Cuticura Talcum Powder and Cuticura Shaving Stick — are in demand from January to December. How are *your* stocks.

**OPPORTUNITIES**

*Through your  
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**"NEVELEX" PRODUCTION.**

Wave Setters (Steel, Nickel Plated) Carded—  
Three 3 in. or two 4 in.

**"NEURAND" PRODUCTION.**

Insecticide (4 and 8 oz. Drums) containing D.D.T  
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**"ROHSEM" PRODUCTION (Emulsifying Waxes).**

WAX 0584 Vanishing Cream, etc. WAX VX &  
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stirring and no homogenisers necessary.

**"ROHSEM" PRODUCTION (COLOURS).**

In liquid or in powder form, pigment, lake or  
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Excellent compounds and essences. Good value  
Sample half ounces supplied.

**MISCELLANEOUS ITEMS DIRECT ONLY.**

Raw materials including Waxes, Oils, Petroleum  
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REFINED GLYCERYL  
MONOSTEARATE EMULSIFIERS

For promotion of Oil-in-Water  
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Limited quantities are now available

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FOR INDUSTRIAL WELFARE

FOR HEAD LICE

**CELETANI**

Medicated (Lethane) Hair Oil—N  
Undetectable in use. Rapidly eff

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**BENZELIA** (Regd.)

Benzyl Benzoate—25%

An emulsion of high efficiency, exte  
effective in the treatment of this  
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KINGSTON 1234 (5 lines)

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# POPULAR WITH THE PUBLIC

Experience has proved that F  
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THE ANTISEPTIC SELF-ADHESIVE BANDAGE

Sticks to itself—but not to the skin

SOLE DISTRIBUTORS—FASSETT & JOHNSON  
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— 4-oz. Round and Tall, with wide mouth and metal screw cap. Available in large quantities — 48/- per gross in lots of 10 gross or more. Otherwise plus 10% carriage paid. Orders in strict rotation until supply exhausted.

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argest Medicinal Herbs and  
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Crude Drugs, Gums, Medicinal  
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Best Product.  
Reasonable Price. Enquiries Solicited.

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Harrison Road, Calcutta, INDIA

## AT LAST IT'S HERE! The NEW PERFECT INSECT REPELLENT



D.M.P. EMULSION CREAM

Protection against BITES of MIDGES, MOSQUITOES, GNATS and similar insects, lasting for three to five hours. A smooth, white cream. Active principle 30% Dimethyl phthalate, as successfully used by Allied Forces in tropical War Areas. Safe, pleasant, long-lasting effect. No unpleasant smell, no greasy film, packed 3" diameter, flat aluminium containers in dozens in attractive Display boxes. Retail price 2/- including purchase tax. Advertising to public from June. Generous terms, carriage paid. Write at once to **CHRISTIE, GEORGE & Company,** 84 Moss Lane West, Manchester, 15

## IN FAIRNESS TO YOU

Our rationing system, instituted under wartime conditions, has enabled each of our customers to receive his fair share of our products during a period of intense shortage.

Though it meant heavy extra work for us, it nevertheless proved the only means of spreading available supplies fairly through the retail and wholesale trade.

That it will not be continued a moment longer than is absolutely necessary, we can assure you.

The time has not yet been reached however when we can effect any sensible increase in the present quotas, nor are we in a position yet to open new accounts.

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'MILK OF MAGNESIA' · PHILLIPS' DENTAL MAGNESIA · PHILLIPS' BEAUTY CREAMS · 'DANDERINE' · 'CALIFORNIA SYRUP OF FIGS'

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THAT'S MAKING HUGE  
SALES FOR THIS  
PROFITABLE LINE

*Mam'sel*  
FOR  
WASHING  
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Mam'sel is a firmly established  
favourite—sells immediately.  
Your profits grow with its increasing  
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*Hand Protective Cream*

TAKES DIRT OUT OF WORK

Protects instantly against DIRT—CRIME—  
STAINS—CHAFING. Does not make the  
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and healthy. No soap or hot water needed.  
18/9 per dozen, plus 6/3 P.T. Retail Price 2/11 per jar.

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*Manufacturing Chemists*

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supply position

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Highly profitable line

These two hair Preparations sell themselves. Limited releases of raw material, now enable us to accept a few more orders for Steiner's "S3" Shampoo Cream and its companion line "Sebosyn". Both preparations are quick sellers and certain to repeat sales.

Retail prices "S3" - - - 9/- incl. pur.  
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LIMITED

## LARGEST SURGICAL DRESSING MANUFACTURERS IN THE WORLD

Makers of the famous 'ELASTIKON' elastic adhesive bandages and plasters, 'Zo' plasters, 'BAND-AID' adhesive dressings, N.H.I. dressings, 'NEAT-EDGE' non-fray W.O.W. bandages, suspensory bandages, crepe bandages, 'FAIRLIE' cotton wool, Red Chain and all B.P.C. and hospital quality dressings.

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## TOOTHBRUSH

*Cleans  
them ALL!*



...s, for 150  
...akers of fine  
...are pro-  
...the "QUIZ"  
...ush. Output  
...resent limited, but already  
...advertising is familiarising  
...the Teethbrush because  
...them ALL!" This new line  
...an good business for you.

A. ROONEY & SONS, LONDON, E.17.



*The Original*  
**Pine Needle**  
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Supplies are now available in the following sizes: 6 oz., 12 oz., 20 oz. and 40 oz., and prices to retailers are 24/-, 44/-, 76/- and 144/- per dozen respectively, plus 16 $\frac{2}{3}$ % Purchase Tax.

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*Enquiries  
Invited*

## HILDENBRAND & CO.

*The Leading Pine Specialists*

61, Fortune Green Road, London, N.W.6

Established 1933

## MISCELLANEOUS OPPORTUNITIES

**H** 'AMBROSIA'  
HairpinsPRE-WAR  
WRAPPINGS

Price 16 packets for 4/8 including Purchase Tax. Retail at 6d per pkt. 2" bronze. 63 in a packet.

**Keenedge Ltd.**  
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**JARS FOR SALE**

—4-oz. Round and Tall, with wide mouth and metal screw cap. Available in large quantities—48/- per gross in lots of 10 gross or more. Otherwise plus 10%, carriage paid. Orders in strict rotation until supply exhausted.

**BRICCAS LTD.**, Fortess Grove, Kentish Town, London, N.W.5  
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We invite your enquiries for all types of packing. Particularly tablets.

All work carried out efficiently and guaranteed.

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**JARS**

5,000 gross 1-oz. & 2-oz. Amber Squat Jars with screw caps available for prompt delivery.

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N.W.5

**WANTED** Government Standard Sweetening Tablets, also Government Standard Saccharin Tablets, in large quantities.

970/254 C. & D. OFFICE

**BOTTLES**

1 Dram Square with Cap	-	-	36/-	gross
3 " " " "	-	-	57/6	"
3 " Narrow " "	-	-	40/-	"
1 oz. Pyramid " "	-	-	45/-	"

Minimum 1 gross carriage paid.  
Special discounts for quantities.

Nail Varnish brushes, metal stem 2 1/2" 17/6 gross  
Mascara " " 2 1/2" 36/- "

Plus P.T. 33 1/3%. Special Terms to Wholesalers.

Rubber wads for lacquer bottles,  
pierced to take brush - - - 3/- gross

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33 IVOR PLACE . LONDON . N.W.1

**For Sale**

5-cwt. Benzoic Acid B.P.,  
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1-cwt. Phenolphthalene,  
10-cwt. Gum Karaya No. 1 Powder,  
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Buyers write 970/246 C. & D. OFFICE

**SPECIAL OFFER!**

12 doz. "CLOMOTH" Cellophane packets  
anti-moth tablets for 25/- c.

Retails for 6 1/2d. per packet.

Cross & Max, Ltd. 17/18 Bishops Court, London

**FOR SALE**

100,000 Cardboard Gas-Mask Boxes (civ  
collapsible), size 6 7/8" x 5 1/2" x 4 1/2".

Price £7 16s. 3d. per

**JULIUS DOWNS & SONS, LTD.**

Cardboard Box Manufacturers,  
West Street, Denton, Nr. Manches

**HARRINGTON**

BRAND

**ASPIRIN**

EXCEPTIONAL PROFIT  
EXCLUSIVE PACK  
LONDON OFFICE: 2 BERRIDGE Grn. EDG

**SUNGLASSES**

ATTRACTIVE COLOURS, ASSORTED  
SUNGLASSES NOW AVAILABLE. FOR SALE  
HOME AND EXPORT MARKETS. TO WHOLE  
SALE AND RETAIL TRADERS. FEW VACAN  
ALSO FOR AGENTS THROUGHOUT COUN  
968/180 C & D OFFICE

**CETYL ALCOHOL**, superfine  
fumery quality available in 56 lb.  
112 lb. lots, Ex Warehouse, Lond

**GLYCERYL MONOSTEARA**  
finest grade for use in cosmetics, ph  
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Both for immediate  
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MAY 18  
1946

Supplement is in-  
in every copy of  
Chemist & Druggist

During restrictions and heavy demand on space necessitate the holding over of a number of advertisements week by week. As normal press days are in abeyance advertisers are advised to send applications as early as possible. Advertisements must be prepaid. Box Office Numbers 1/- extra.

## SITUATIONS OPEN

40 words or less, 2d. for every additional word.

### RETAIL (HOME)

**MANAGER** required, Lady or Gentleman. 9-6. No extra duties. Also an Assistant. Reply to F. Biffin, 269 Brownhill Road, S.E.6. Hither Green 4288.

**QUALIFIED ASSISTANT** required in old-established West of London business. Good prospects to right man. No Sunday duty. Stating age, experience and full particulars to C. & D. Office.

**QUALIFIED Chemist** required. Management. Senior Unqualified. West-End Pharmacy. 10-11. 968/195, C. & D. Office.

**QUALIFIED Assistant** required for permanent position. Either sex. Dispensing and counter. Day or holiday duty. Apply by letter stating particulars to Reid (Chemists) Ltd., 12 Station Road, Southgate, N.14.

**CANT**, fully qualified, required for permanent position in department store. No holiday or duty. Write giving age, experience and required to Staff Controller, Bentalls of

**ENHAM**. Good-class pharmacy in residential area, ten miles from London, requires Qualified Chemist. Easy hours and three other assistants. D. Millar, Park Langley, Beckenham, Kent. Rec. 1213.

**INGHAM**. Qualified Branch Manager required for busy Middlesex business. Salary commission offered. Full particulars, please, Highfield, Ltd., Bearwood Road, Smethwick. **NEL ISLANDS**. Young Qualified Chemist, experienced unqualified required for good business. Congenial post in good working hours. C. M. Stone, 39-41 Bath Street, Jersey,

**IST** in small Surrey town requires Unqualified Assistant, male or female, for high-business. Good salary. Apply giving full details of experience to 970/239, C. & D. Office. **ISTS Assistants (Ladies)** wanted for clerical work in the N.H.I. checking bureau and stock departments. Apply National Pharmaceu- tion, 4-5 Queen Square, W.C.1.

**HAM COUNTY**. Qualified Chemist required immediately. Excellent prospects for young man. Interesting and varied work. Salary according to experience. Apply giving full particulars to E. J. Ryhope, Sunderland, Durham.

**BOURNE Area**. Qualified Chemist required to take complete charge. Co-partnership. No capital required. Living accommodation necessary. G. Meech, 97 Cambridge Park, Stone, E.11.

**X (near London)**. Qualified Manager for busy working-class business. Must be good, reliable to control stock and staff. Hard and good pay. Excellent prospects. 970/236, C. & D. Office.

**EXPERIENCED Assistant** required. Qualified, or competent unqualified Lady or Gentleman. Good-class family and dispensing business.—Davies (Chemist), 12 Matlock Road, Brighton.

**HAMPSTEAD, N.W.3**. Qualified Lady or Gentleman required for high-class business in Hampstead. Congenial position in pleasant surroundings. Also unqualified girl to assist at toilet counter, etc. Apply, giving full particulars, to E. B. Stamp, 29 Hampstead High Street, N.W.3.

**LADY**, Qualified, urgently required at Ilford. Permanent position, good salary, easy hours. Plenty of counter trade and only light dispensing. Apply in writing to 44 Somersby Gardens, Ilford, Essex.

**LEATHERHEAD** Emergency Hospital, Leatherhead. Applications are invited for the post of Assistant Pharmacist. Salary in accordance with recommendation of Joint Negotiating Committee (Hospital Staffs). Apply in writing to the Secretary.

**LEEDS**. Pharmacist urgently required for busy Pharmacy. Apply with usual full particulars. 971/298, C. & D. Office.

**LEICESTERSHIRE**. Qualified Manager required for Pharmacy in country district. Good prospects to anyone able to revive somewhat neglected business. Modest living accommodation available. Permanency. Apply 969/234, C. & D. Office.

**LONDON**. Pharmacist required to manage high-class semi-West End type business. Must be well experienced and thoroughly reliable. Saturday half holiday. No Sunday duty. Apply 969/235, C. & D. Office.

**LONDON, S.E.** Wanted, a Qualified Manager, under 40, for quick cash business. Staff kept, five or six. Apply stating salary required and when disengaged to 972/305, C. & D. Office.

**LONDON, W.2**. Energetic Manager required for working-class branch pharmacy. Must be used to N.H.I. dispensing. Apply stating salary required to 970/237, C. & D. Office.

**LONDON, N.10**. Required Lady Assistant for good-class counter trade and dispensing. Hall qualification. Apply: Proctor Cole, Ltd., 21 Station Parade, Muswell Hill.

**LONDON, WEST**. Qualified Manager for busy shop in central position of shopping area. Good-class Dispensing and Toilet. Modern Pharmacy heavy counter. Staff of 4 or 5 kept. Must be experienced, good salesman and stock-keeper. Good salary, permanency, and prospects to a live man. No living accommodation. State full particulars. 971/300, C. & D. Office.

**MANCHESTER**. Unqualified Assistant required, experience essential, progressive situation for right person, no Sunday or Saturday afternoon duty. Reply stating age, experience and salary to 971/270, C. & D. Office.

**MIDLAND City**. Manager wanted for family suburban business in nice neighbourhood. Possibility of good accommodation later on premises if not urgently needed. Congenial post with good conditions. 969/233, C. & D. Office.

**MITCHELL.** Chemist, Bradford, requires smart, efficient Qualified Assistant at very early date. Also Unqualified with first-class dispensing experience. Full particulars, including salary, to Mitchell, 55 Darley Street, Bradford.

**M.P.S.** and two Chemists Assistants required for new department to be opened in large departmental store in the Midlands. Write giving full particulars of qualifications and experience. 971/294, C. & D. Office.

**ORRIDGE & Co.,** Employment Agency, Columbia House, Aldwych, W.C.2. Chancery 6446-7. Branches at Southampton and Birmingham. Inquiries invited from Pharmacists and Unqualified persons requiring situations. Many attractive vacancies available. Excellent opportunities existing in progressive permanencies. Locums provided for. No charge to employees except registration fee. Apply to Columbia House in first instance.

**QUALIFIED Assistant** required for one of the leading provincial pharmacies in Northern Ireland. Good salary to man of experience (Scot preferred). Short hours, no holiday duty. Choice locality with fishing and shooting for anyone interested in sport. Apply giving particulars of age, experience with copies of testimonials. 971/299, C. & D. Office.

**QUALIFIED Manager** required for Leytonstone. Comfortable unfurnished flat available over Pharmacy. Details to Murrison, 74 Leyspring Road, Leytonstone, E.11.

**QUALIFIED Pharmacist** as temporary Branch Manager. No Sunday or half-day holiday duties. Apply by letter giving full particulars to Superintendent Chemist, Dewsbury Pioneers' Industrial Society Ltd., 41 Northgate, Dewsbury.

**SCOTLAND.** Qualified, young, single, required immediately for branch. Light family and dispensing business. Good hours, usual holidays. Apply, giving usual particulars, when free.—Murray, 35 Galloway Street Dumfries.

**TWO Young Lady Pharmacists** required. One soon, to manage new branch, with one assistant. Other capable take charge main business wanted by September. Hospital experience an advantage. N.I.J.C. rates plus generous share net profits. Easy hours. Coastal yachting area, Hampshire. 972/308, C. & D. Office.

**UNQUALIFIED Assistant** required for high-class pharmacy, London, W.C.2. Good hours, no Sunday duty. Permanency. Apply giving full particulars to 972/307, C. & D. Office.

**UNQUALIFIED Assistant** required, male or female, for dispensing and counter duties in busy main road Pharmacy. Congenial post, good conditions and wages. Apply 970/238, C. & D. Office.

**UNQUALIFIED Assistant** wanted. Comfortable and congenial post in pleasant locality. Usual particulars and salary required. A. J. Hall, Ltd., 97 High Street, Maidenhead.

**UNQUALIFIED Assistants** with knowledge of Dispensing are required for branch pharmacies in Reading, Dover, Ashford, Leamington, Portsmouth and London districts. Good salaries paid to first-class men. Convenient interviews arranged. Apply with full particulars, Retail Staff Manager, Timothy Whites & Taylors, Ltd., 70 Vauxhall Bridge Road, London, S.W.1.

**UNQUALIFIED Lady or Gentleman** as Manager for drug store in busy working-class district. Apply 971/271, C. & D. Office.

**WALSALL, Staffs.** Unqualified Male Assistant required. Competent and thoroughly experienced dispensing, display and counter.—Shelley, Caldmore, Walsall.

**WANTED, Unqualified Assistant.** Particulars in first letter. Permanency. Apply Grey & Son, Chemists, Rothwell, Northants.

**WANTED** for Kensington. Qualified Lady Assistant for Chemist Business. Apply by letter in first instance to 968/197, C. & D. Office.

**YOUNG Qualified (male) Assistant** required for good-class business. No extra duties. Stating age, experience and salary required. C. C. Steward, 27 High Street, Worcester.

## LOCUMS WANTED

**DISPENSER (Locum)** required. Five days a week. July 20. Write 30 Upton Road, N. Phone 6266/7.

**GENEROUS Salary** offered Qualified 1 Gentleman, June 3, for five months, lock-up branch shop, easy hours. Exp. assistant kept. Comfortable flat available. Ltd., 11 Cowick Street, Exeter.

**QUALIFIED Locum** required, Liverpool 2 July, August, September. Possible permanency. State salary required. Hong Lappin, Ltd., 221 West Derby Road, Liverpool.

**QUALIFIED Locum.** Two weeks (preferably not essentially, July 22-August 3 in Usual particulars to A. J. Hall, Ltd., 97 High Street, Maidenhead.

## WHOLESALE

**AGENTS** on commission basis required in all parts of the country for DDT, soapless soap, tablets, chemists' and stationery lines, fancy goods, etc. Please apply to 970/267, C. & D. Office.

**AGENTS** working on commission and cash basis required in all parts of the country to sell an entirely new product area covered, frequency, and other lines. 967/139, C. & D. Office.

**AGENTS** required in many counties in England and Wales. High commissions on first-class business. Full details to 968/175, C. & D. Office.

**ANALYTICAL Laboratory Assistant** required. Matric. or Inter-Sci. Standard, exempt military service. Apply stating age, experience salary required to Chief Chemist, 46 Southwar Street, S.E.1.

**EXPERIENCED Tablet Coater** required for Manufacturing Chemists in West London. Day week, wages £7 10s., excellent prospects. Applications, with references, to Box 112, Smith's, 1 St. Paul, E.C.4.

**GENERAL MANAGER** required for well-established distributing company. Good salary and prospects. Please send full details in confidence. C. & D. Office.

**JOHNSON Agencies (Pty) Ltd.,** Clarendon Road, Clarendon, require representatives in (1) Wales, (2) Scotland gentlemen with good connexions in these areas should apply. Salary, commission and expenses good prospects offered to suitable men. A. J. Hall, Ltd., 97 High Street, Maidenhead.

**LABORATORY Chemist** for Midland factories. Capable of Assay and test preparations in process. Qualification not essential. Full details and salary required. 969/220, C. & D. Office.

**LONDON Manufacturing Chemists** now require Sales Force require first-class Salesmen on chemists and allied trades in several including Home Counties, London, South & Central Counties, Midlands, Northern Counties, Scotland and Northern Ireland. Generous commission. Write, giving details of territory worked at present. 971/287, C. & D. Office.

**MANAGER** required for London Manufacturing Chemical firm desirous of developing a wholesale department particularly in waxes, organic products, essential oils, etc., for import and home market. Excellent opportunity for the right man. 970/269, C. & D. Office.

**R** required in Professional Information ment (West London) serving an impor- of companies manufacturing medicines, ne requisites and foodstuffs. Must be e, or possessor of equivalent knowledge es and allied sciences, and able to instruct e a team of representatives. A flair professional advertising literature an Applications giving age, qualifications, and salary desired to Box No. P.1335 ngsway Hall, London.

**R** required by small Laboratory in Cuffley et to supervise ampouling and capsuling ing of doctors' prescriptions. £400 p.a. applicant considered. 965/995, C. & D.

**GOODS.** Supervisor required by London: manufacturing chemists to take charge, workers. Pharmacist preferred. Plenty introducing modern packing methods. position. Commencing salary not less £400 p.a. Write giving full details of experience. C. & D. Office.

**ER** with sound practical and theoretical dge, able to manage and develop a rtment for the production of perfume and wholesale of essential oils, urgently London Area. Favourable working 970/259, C. & D. Office.

**CIST** required in Leeds as Assistant in a try for work in general pharmaceutical mulation of new products, etc. Apply rticulars of age, qualifications, experience required to 971/273, C. & D. Office.

**Worker** for manufacture Pharmaceutical cts. Five day week. May Roberts & Co., rfield, Upper Clapton, London, E.5.

**TY** Department of important firm en- in the production of ethical pharmaceutical as vacancy for young man—qualified or pharmacist, having some knowledge of ad some experience in the production of aterial and direct mailing. Applications, mails, to 971/288, C. & D. Office.

**LE** Agents with established connexions id in all countries Great Britain to carry ods to wholesalers, retailers, exporters, institutions, hotels, chemists. State age, regular territory. Other goods carried. C. & D. Office.

**ENTATIVES** required by firm of manu- ing chemists for their established ical products. Good opportunity for connexion to increase considerably their n these good repeating lines. Details of vered. Replies to 968/188, C. & D. Office.

**ENTATIVES** required. Must be well tuced to chemists, co-ops. and stores (s.) and wholesalers, to carry a few extra n lines of shampoos (not soapless) and c., on most generous commission. Terri- ble: Cornwall, Devon, Somerset, Dorset, Wilts, Hants, Sussex, Essex, Kent, cks, Herts, Beds, Northants, Suffolk, Stafford, and Derbyshire. Must have connexions with the wholesale and retail Please state territory covered. Reply to C. & D. Office.

**ENTATIVE** required for East and South on to take on additional lines. Telephone tment. Harman Dietetic Laboratories, ricklewood Broadway, N.W.2. GLADstone

**SENTATIVE** required for Luxury Toilet arations (A-Class) to be carried as addi- on commission basis, to call on Chemists, rs, Department Stores (Perfumery and ion) for various provincial areas. Only are well introduced to retailers should state e carried and names of firms represented. ference in first letter. 971/301, C. & D.

**R** REPRESENTATIVE required by established Wholesale and Manufacturers to call on Hairdressers in (a) Cheshire and Staffordshire. (b) North-East Coast. Applicants must have full experience in sundries and equipment, knowledge of territory, under 45, car owner. Good prospects to salesmen willing to work and able to sell. Full particulars in confidence. 971/292, C. & D. Office.

**R** REPRESENTATIVE required for many Counties. High commission paid to men having good connexions with Chemists, Hairdressers and Stores. 971/297, C. & D. Office.

**R** REPRESENTATIVE wanted for first-class Wash- ing Powder, Home and Export. Apply S.T. Chemicals Ltd., 214 Bishopsgate, London, E.C.2.

**R** REPRESENTATIVE required for West End of London. Must have sound connexion with Departmental Stores for the sale of revolutionary bathroom requisites and fancy lines. Sole area vacant. 971/302, C. & D. Office.

**R** REQUIRED, young Chemist or Pharmacist to train under Chief Chemist to take charge of manufacture of pharmaceutical products and toilet articles. Excellent prospect for energetic young man. Write fully stating age, whether married or single, qualifications, posts held, when free and salary required. 969/230, C. & D. Office.

**S** SALES and Publicity Organiser wanted by young progressive company marketing medical and toilet preparations. First class opportunity for man with ability to rise. Write in confidence stating age, experience of advertising and selling to 971/276, C. & D. Office.

**S** SHIPPING CLERK required by old-established druggists. Apply, stating salary required, to Gale, Baiss & Co., Ltd., 274/6 Ilderton Road, London, S.E.15.

**S**UGAR COATING. Well-known North-West London food and fine chemical manufacturer has vacancies in its tablet department for energetic and capable pan operators. The positions are permanent and pensionable. Applicants must have had sound practical experience of either drug-trade coating technique or confectionery trade pan goods technique. Wages £7 2s. per week. Shift work on an average week of 43 hours. Applications should be endorsed "Sugar Coater." 971/284, C. & D. Office.

**T**WO Qualified men wanted for manufacturing and retail business. £10 salary and bonus. Permanent and good prospects. Apply Amblins Sales Co., Ltd., 338 Kilburn High Road, N.W.6.

**WORKS** Analyst required by London firm of Manufacturing Chemists to supervise production control and assay work in connexion with B.P. products. B.Pharm. or Ph.C. qualification preferred, but not essential. Progressive position for suitable applicant. Write 967/156, C. & D. Office.

**Y**OUNG Qualified M.P.S. (male or female) required as assistant works chemist by manufacturing chemists, S.W. London district. Knowledge of typing an advantage but not essential. Progressive permanent position. Write stating age, experience and salary required. 968/183, C. & D. Office.

## WHOLESALE (OVERSEAS)

**C**HEMISTS urgently required by large company operating in the Middle East. Will be employed either on Development or Process work and should be prepared initially to undertake shift work on Process Plant; should possess B.Sc. degree and preferably have had subsequent industrial experience. Age not over 30. Single men preferred. Starting salary not less than £500-£600 p.a. according to qualification, together with allowances in local currency, also free furnished bachelor accommodation, free passages out and home; free medical attention; kit allowance; Provident Fund benefits. Applicants must be of full British parentage and should write stating age, qualifications and experience to 968/184, C. & D. Office.

**CANADA.** Unique opportunity for two chemists required by Canadian organisation. One with knowledge of Organic Synthesis, and the other with experience of Plant Extracts, Alkaloids and Glandular Derivatives. Applicants can be interviewed in London. Write in confidence to 971/293, C. & D. Office.

**SOUTH AFRICA.** Qualified Chemists, preferably with laboratory experience, required by large wholesale and retail chemists. Also several Unqualified men with experience in wholesale wet and dry departments. Applicants should apply in writing, stating age, married or single, qualifications, experience and fullest particulars to 971/281, C. & D. Office

## SITUATIONS WANTED

2/6 for 18 words or less, 1d. for every additional word.

### RETAIL (HOME)

**COVENTRY.** Pharmacist available immediately for permanent managership or short-period locum engagement.—W. Hilton, 96 Kenpas Highway, Coventry.

**DISPENSER (Hall), Lady.** Experienced hospital, doctors, chemists. Available May 18. Knowledge French, bookkeeping. London, South or Channel Isles. State terms. Write : C. Dispenser, 55 Holland Park, W.11.

**PHARMACIST** requires situation Oxfordshire. Experienced wholesale and retail. Recently demobbed. Partnership considered or ultimate purchase. 969/204, C. & D. Office.

### LOCUMS SEEKING ENGAGEMENT

**DISENGAGED,** Locum, any period. Manage or assist. Thoroughly competent, reliable all-round experience. Reasonable terms. Highest references. Town or Country. Bishop, 9 Gunnersbury Gardens, W.3.

### WHOLESALE

**AMBITIOUS** Young Man (33), unqualified, recently demobilised, seeks progressive position of responsibility and trust with go-ahead firm. Experienced in retail, wholesale and as representative visiting G.P.s in Home Counties. Reason for desiring change is because of gradual stagnation of present firm. Smart appearance, adaptable and willing to work for genuine people. Arrange interview any time. 971/275, C. & D. Office.

**CAPABLE** Man with many years experience retail, wholesale, manufacture and production toilet, cosmetics, seeks post. Unqualified. Highest credentials. 971/303, C. & D. Office.

**EXPERIENCED** Commercial Traveller with splendid connexion among chemists, hair-dressers and stores in London and Home Counties, requires similar post with progressive firm. Write 971/286, C. & D. Office.

**LADY** Representative, excellent connexion amongst Chemists, Stores, etc. (in Eastern Counties) (over twelve years with one house), seeks position with first-class firm (proprietary preferred but not essential). Commission basis, or salary, etc. 969/221, C. & D. Office.

**PHARMACEUTICAL** Chemist, age 37, at present holding responsible executive position in an international organisation, desires change. 15 years' experience cosmetic and proprietary pharmaceutical manufacturing. All replies in strict confidence. 971/285, C. & D. Office.

**PHARMACIST** (35) at present S/Sgt. R.A.M.C. (release end of June) desires responsible position. Wholesale or good-class retail, London or Overseas. 10 years' pre-war all-round retail experience; 4 years' army medical store and service hospital. 970/266, C. & D. Office.

**REPRESENTATIVE,** 16 years' Pharmacy well-known to Chemists and Doctors, territory Kent to Land's End. 968/201, C. Office.

**REPRESENTATIVE** requires position with repute (C.F.). Excellent connexion Ch Stores, Co-ops, etc. N.E. Coastal area, Skegness. Cosmetics and repeat lines re Salary, commission and expenses. Full det 970/263, C. & D. Office.

**REPRESENTATIVE,** 37, not qualified. Energetic. 14 years' wholesale experience as representative drugs, proprietaries, etc. Excellent connexions North London Released Forces. Salary, expenses, comm 972/304, C. & D. Office.

**SALES MANAGER** (Home and Export), with wide experience modern control, desires. Methods include accurate planning based on market investigation and budgetary control selling. Specialised 15 years with international known manufacturers selling to chemists, and nursing professions, hospitals and departments. 971/282, C. & D. Office.

**WELL** introduced representative, 27, seek of repute. First-class connexions Chemists, Doctors, Dentists throughout East South-Eastern Counties. Keenly interested in cosmetic and toilet trades; experienced in gaudy detailing. Hard worker, free to travel. Highest references. Free now. C. & D. Office.

### WHOLESALE (OVERSEAS)

**PHARMACEUTICAL** Chemist taking up re in Canada desires to represent a firm Drug or Toilet House. Apply to 970/251, C. Office.

### PARTNERSHIPS

**ACTIVE** Partnership required by Qualified in Wholesale or Manufacturing in London. Capital £2,000 to £3,000 available. C. & D. Office.

**GENTLEMAN** wishes to meet another to join in the export side of toilet preparations cosmetics. One who can manufacture same. capital required. 971/283, C. & D. Office.

### SALE BY AUCTION

**IMPORTANT SALE OF USEFUL SUNDRIES** By order of the Joint Liquidators, V. L. Esq., and Parkin S. Booth, Esq. Re Traders Supplies (Barlow) Ltd.—In Liquidation. **SALE ROOMS : 2/5 LITTLE BRITAIN** (close to G.P.O.) E.C.1.

**STOCK OF TOILET TRADE SUPPLIES DRUGGISTS SUNDRIES**—partly salv including Beach Bags, Toilet Holdalls, Swim Hats, Rubber Cot Sheets, Compacts, Lip Holders, Sheepskin soles, Powder Puffs, Soaps, Shaving Creams, Floor and Tile Polishing Creams, Lung Syrups, Yeast-pac B Preparation, Insecticides, Disinfectants, etc. Capes, very large selection of sundries.

**CHEMISTS DRUG RUN—SHOWCASES** fittings.

**OFFICE FURNITURE** and other items. **B. NORMAN & SON** will sell by Auction at Sale Rooms as above Wednesday, June 12, 12.30 p.m. View Monday and Tuesday, June 11 and 4 (10-4) and Morning of Sale. Catalogue Messrs. V. Wolfgang Bell & Co., Account 6 Broad Street Place, E.C.2, of Parkin S. Booth, Esq., 14-17 Holborn Viaduct, E.C.1, and Auctioneers, 2-5 Little Britain, E.C.1. Mon. 8.501.)

## APPOINTMENTS

### CHARING CROSS HOSPITAL

ASSISTANT PHARMACIST required. Scale. Applications with references to the Secretary, Charing Cross Hospital, Agar Street, W.C.2.

### CHARING CROSS HOSPITAL

PHARMACEUTICAL DISPENSER required. Apothecary certificate. J.N.C. Scale. Apply immediately with references to The Secretary, Charing Cross Hospital, Agar Street, Strand, W.C.2.

PHARMACEUTICAL ASSISTANT PHARMACIST required at MIDDLESEX COUNTY COUNCIL at the ROYAL MIDDLESEX COUNTY HOSPITAL, Park Royal, N.W.10, IMMEDIATELY for at least three months. Salary £7 7s. p.w.k. Application to MEDICAL DIRECTOR, Hospital.

PHARMACEUTICAL ASSISTANT (M.P.S.) required for locum duty for a period of approximately two to three months. Salary (arranged) according to experience. Applications in writing, with full particulars of age, experience, etc., to The Secretary, Royal Gwent Hospital, Newport.

PHARMACEUTICAL ASSISTANT (Holiday Relief) wanted at the Essex County Council Hospital, Black Notley, near Braintree, and Broomfield, near Chelmsford, for the period July 15 to 27, and the following week to be arranged (at Broomfield), July 29 to August 18 (at Black Notley). Give salary at the rate of 8 gns. a week. Applications, together with copies of not more than three recent testimonials, should be sent to the Clerk of the County Council, County Hall, Chelmsford, as soon as possible.

### RAIPON STATE INSTITUTION

PHARMACEUTICAL DEFECTIVES, NR. RETFORD, NOTTS. ASSISTANT PHARMACEUTICAL (Woman) Single. Commencing salary (age over 21) £223 x £20 to £323 per annum, with free quarters.

Food and is provided and charged for at cost price present 14s. weekly.

Applicants who should be members of the Pharmaceutical Society will be required to carry out duties of Dispenser.

Subject to certain conditions, this post is available under the Civil Service Superannuation Act.

Applications, stating age, experience and references, etc., should be sent to the Medical Superintendent.

### WREXHAM COUNTY COUNCIL

PHARMACEUTICAL ASSISTANT at KINGSTON COUNTY HOSPITAL, Wolverton Avenue, Kingstons-upon-Thames. (Permanent Appointment). Must possess M.P.S. or Ph.C. qualifications. Commencing salary on grade £325 x £12 10s. -£375 plus bonus 18/6 p.w. female, 23/- p.w. male.

PHARMACEUTICAL ASSISTANTS at KINGSTON COUNTY HOSPITAL, Wolverton Avenue, Kingstons-upon-Thames (Permanent Appointment). MUST POSSESS M.P.S. or Ph.C. qualifications. Commencing salary on grade £325 x £12 10s. -£375 plus bonus 18/6 p.w. male, 23/- p.w. female. Apply to Medical Superintendent of appropriate Hospital.

## ST. LUKE'S MENTAL HOSPITAL

### MIDDLESBROUGH

#### APPOINTMENT OF PHARMACIST (Amended Advertisement)

Applications invited for the post of whole-time male Pharmacist to this Hospital. The appointment is pensionable and comes under the provisions of the Asylums Officers' Superannuation Act, 1909.

Candidates must be under the age of 35 years and must hold the Diploma of M.P.S. or Ph.C., together with the Diploma of Bio-Chemical Analysis.

The successful Candidate will be required to undergo a medical examination and must reside after appointment within the County Borough of Middlesbrough.

Full consideration will be given to those who have served in H.M. Forces.

The salary offered is £370 rising to £445 by five annual increments of £15, according to the Recommendations of the Joint Negotiating Committee (Hospital Staffs).

Applications, accompanied by three recent testimonials or references, should be forwarded without delay to the Medical Superintendent, St. Luke's Hospital, Middlesbrough.

Canvassing will disqualify.

## BUSINESSES FOR DISPOSAL

7/6 for 40 words or less, 2d. for every additional word.

**BRADFORD.** Old-established, main road, t/o 1945, £3,800, net prof. to Proprietor £850. Accountants figures, p/p £4,500 including property. 971/291, C. & D. Office.

**CHEMISTS'** business in busy neighbourhood, near docks. Unopposed. Has been drug store during war-time. Apply 971/272, C. & D. Office.

**FOR SALE, Lock-up Drug-Store.** Main Road, Northern Town. Suit Chemist. 971/289, C. & D. Office.

**LONDON, S.E.18.** Old-established Chemists' business on corner for sale, with vacant house attached. Turnover £3,300 plus N.H.I. £370. Audited figures. Rent £100. Price £2,500. 972/306, C. & D. Office.

**MANUFACTURERS** offer for sale business of a nationally advertised household cleaning fluid, complete with filling machine, stock, cartons, etc. Excellent opportunity. Capital approximately £2,000. Principals only. Write Box PA733, Deacons' Advertising, 36 Leadenhall Street, E.C.3.

**REGISTERED** Cosmetic and Medical Manufacturing and Retail Chemists business for sale or half share and management at £5,000. Well established with connexion all over the country. Owner retiring. 971/296, C. & D. Office.

## BUSINESSES WANTED

7/6 for 40 words or less, 2d. for every additional word.

**ANIMAL** Medicine Foods, etc. Manufacturing business required by Pharmacist with unique specialised executive experience. Either active share or outright purchase. Wonderful opportunity for business wishing to expand. Advertiser has eminently successful record in this trade. Replies treated strictest confidence. 970/243, C. & D. Office.

**HILLIER, PARKER, MAY & ROWDEN,** Surveyors and Valuers, 77 Grosvenor Street, W.1, have applications for several sound and progressive single-shop Businesses occupying premier trading positions in London and Provinces, or a Group Concern would be seriously considered. Others contemplating sale or their solicitors are invited to write for further information to Hillier, Parker, May & Rowden, 77 Grosvenor Street, W.1.

**WANTED**

7/6 for 36 words or less, 2d. for every additional word.

**A**UTOMATIC Cream Filler wanted at once; big price paid. Shavex Co., Bavaria Road, Holloway, N.19.

**E**DIBLE Sheet and Powdered Gelatin required in large quantities. 965/970, C. & D. Office.

**G**LYCERIN Wanted, any quantity 1 cwt. upwards. Offers to 967/162, C. & D. Office.

**M**ALT Extract and Glycerin B.P. wanted per ton. 971/299, C. & D. Office.

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